



DX NEWS

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National Radio Club

SINCE 1933

Volume 53 Issue 29 Monday, August 18, 1986

DDDX-East Column Remember that this column now has a new editor. The new Column Editor, Bill, has the following address: William Hale, 9823 N. Meadow, Converse, TX 78109. Last issue I had added the word "Street" on his street address... well, forget it as that is another street in Converse by that name. Those that got replacement labels for the DDXD forms, please scratch out the "St." on the address line of the labels. Thanks.

DDDX-West Column Where are all you 'Western' DXers? I can only think of two reasons why that column is smaller than Chucks (IDXD). 1- You don't have a radio or its not plugged in or 2- You don't know how to print or have lost your large black pencil!!!! Lets get with it people, even the newer members must have heard something!!!!

NRC Convention Update The Registration Fee has been set at US\$20.00. I know its too late to mail it in to Dave, so bring it with you. And Don't Forget it!, no pay no play. Some items of interest, Scavenger Hunt, Talk to the Editor, FM Antenna on the roof! to play with, a room set up with Radio equipment, WNRC-650 on the air, Laurie Boyer!, door prizes!, plus a lot more surprises. Its still not too late to get a room at the Hotel, call them direct at 302-658-8511 (Ramada Inn). US\$48 Single, US\$54 Double, Extra Person US\$6.00 You will have to let Dave know which Banquet food selection you will want, drop him a line, Details see page 47 last issue and page 10 last issue for his address. Map to Convention can be found on page 47.

8th Edition, NRC Logbook "Where is my copy?", "How come I haven't received it yet?", etc. etc. What's the status of the book. As we see things, the logbook should be out by the middle of September. Not sure if we'll have copies available at the Convention. We'll both find out when I show up. Why the delay? Simple, more last minute changes than what we thought.

From Rod O'Connor, "KCHU 770 Valdez on the air as of 1 August. Uses 1kw U days, 500w nights. Presently only on til 9pm, but should be on from 6am to 12midnight (Alaska Time)."

From Walt McCrystal, NY, "I recently installed a Chrysler-Huntsville AM Stereo/AM Stereo radio in my car. It uses the Motorola Format. At the same time a 76.5" 4-section mast antenna (#2889934) still available from Chrysler dealers, was also installed. Parking on top of a hill I'm able to receive AM Stereo DX from Boston, NY, Detroit, and Chicago as well as some more local AM Stereo stns. Kahn-AM Stereo seems to produce a whistle which isn't heterodyning. The above radio/ant. combo will fit domestic Chrysler products from '76 to '83."

I forgot to put this next item in the last issue, sorry Dave. Dave Pedersen, 196 Grandview Road, Hamilton, New Zealand, would like to tapepond with those with like interests in AM DX. Also he is looking for air checks on FM stations and C&W stations. He'll trade one for one, details will be worked out once contact is made with you. So...if you want air checks from NZ this is the guy that can get it for you. Help him out. Thanks.

Computer Modem Users pay attention. HQ now has two E-Mail sources available to us, and perhaps to you too. 1- Compuserve. Leave mail to Mike Knitter 72457,2345 (we're still a novice on this system but we are trying), the other is called "FIDONET", a funny name for a very serious E-Mail system. Our 'mailing code' is Net 154/Node 128 or use Net 121/Node 1. Ask around your local BBSs for the local FIDONET in your area, if you can't locate it drop us a line. For more info on both systems drop us a line, plus tell us your Compuserve number & or FIDONET number.

Last minute CPC TEST See Pg. 9 !!

LOOK INSIDE:

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AM SWITCH

② Jerry Starr, c/o WHOT Radio, 401 N. Blaine Ave., Youngstown, OH 44505

CALL LETTER CHANGES

OLD CALL:	NEW CALL:	OLD CALL:	NEW CALL:
540 KKAR CA HESPERIA	KSHO	1310 WKOJ MS HATTIESBURG	WGTB
610 WRUS KY RUSSELLVILLE	WLTO	1330 *NEW GA MURRAYVILLE	WKZD
WROQ NC CHARLOTTE	WAES	1340 KQBR MN BRAINERD	KVBR
740 *NEW WA DISHMAN	KSPQ	1350 WKLR NH LACONIA	WMRS*
770 WKYJ KY NICHOLASVILLE	WJMM	1360 *NEW CO JOHNSTOWN	KZOI
820 *NEW TN JASPER	WAPO	1370 KOIS TX AMARILLO	KWAS
850 WJYV MS FOREST	WQST	1380 KRTW TX BAYTOWN	KBUK*
860 WAMA FL DUNEDIN	WGUL	1390 WGTY MI CHARLOTTE	WNFL
880 KDXA NV LOELOCK	KLVK	1400 WNAN AL DEMOPOLIS	WZNJ
910 KOYN MT BILLINGS	KBLG	1410 KGOF CA INDO	KUNA
930 WKFX AL RAINBOW CITY	WJBY	1420 WVNF GA ALPHARETTA	WORZ
980 WDVH FL GAINESVILLE	WLUS	1430 WYSL NY BUFFALO	WPHD
980 WCHZ FL GULF BREEZE	WFXP	1440 KVLT OK TULSA	KSKS
990 KYND TX BEAUMONT	KGIC*	1450 KPRO CA RIVERSIDE	KDIF
1000 WKMK FL BLOUNTSVILLE	WYBT	1460 WFCO MD THURMONT	WTHU
1060 WMYT NC MEBANE	WGLH	1470 WMMJ VT BRATTLEBORO	WTSA
1160 *NEW MD BOONSBORO	WPVG	1500 WRDS MS SARDIS	WKXT
WJCU NY TRUMANSBURG	WPIE	1510 KCIF WA TUMWATER	KVSN
1190 WSVL TN DUNLAP	WSDQ*	1520 WOIX NC BLOWING ROCK	WXIX
1220 KOFO KS OTTAWA	KFRG	1530 WRBX NC CHAPEL HILL	WRTP
1230 WLTO AL TUSCALOOSA	WRLX*	1540 WIGL AL ATOMRE	WSKR
KFLR AZ PHOENIX	KAMJ*	1550 WASY ME GORHAM	WJBO
KYTY MT HARDIN	KBSR	1600 KWOW CA PAMONA	KNNY
1240 WHUM PA READING	WAGO	1610 WNGA GA NASHVILLE	WLYZ
1270 KINN NM ALAMOGORDO	KZKZ	1620 KGWB WA WEST RICHLAND	KZUN
1290 *NEW MS MERIDIAN	WNBN		

*NOTES ON CALL LETTERS: KGIC-990 HAD THE KYND CALL SET ASIDE AND NEVER USED IT. WSDQ-1190 CORRECTS A TYPO FROM LAST ISSUE. WRLX-1230 HAD WLTO SET ASIDE AND NEVER USED IT. KAMJ-1230 ALSO HAD REQUESTED KONC BUT DROPPED IT ASIDE IN FAVOR OF KAMJ BETWEEN THE LAST AM SWITCH AND THIS ONE. WMRS-1350 HAD THE WKLR CALL SET ASIDE AND NEVER USED IT. THIS IS THE THIRD STATION TO ASK FOR, THEN SET ASIDE WKLR THIS YEAR. WHAT'S WRONG WITH THIS CALL? KBUK-1360 NEVER CHANGED TO KRTW DESPITE WHAT YOU MAY HAVE SEEN ELSEWHERE. KRTW WAS GIVEN TO A NEW LOW POWER TV STATION IN BAYTOWN. THE MIXUP OCCURRED IN THE FCC PUBLIC NOTICES.

APPLICATIONS FOR NEW STATIONS

590 TN LAWRENCEBURG:	750 D1
720 CA TEMPLETON:	1000/250 U4
760 TN KNOXVILLE:	2500 D3
TN NASHVILLE:	1000 D3
880 FL FLORIDA CITY:	25000/1000 U4
FL LONGWOOD:	50000/1000 U4
NC WINSTON-SALEM:	1000 D3
910 CA ANTIOCH:	0/3000 N1 (SYNCHRONOUS WITH KNEW-910 OAKLAND, NIGHT ONLY)
1020 FL PERRINE:	20000/1000 U4
1090 CA OAKHURST:	500 D1
1210 SK KINDERSLEY:	1000/250 U1 (POSSIBLY REPEATER FOR CJYM)
1230 FL DEERFIELD BEACH:	375/375 U1 (SYNCHRONOUS WITH WJNO W. PALM BEACH)
1290 OR MYRTLE CREEK:	5000 D3
VA HOLLYMEAD:	1000 D3
1480 WA STEILACOOM:	1000 D3 (CHALLANGING KLAY LAKWOOD FOR THE FREQUENCY)
1520 TX CYPRESS:	500 D3
1530 CA YUCAIPA:	50000 (13000 CH) D3
1550 CA APPLE VALLEY:	800 D1
CA SAN JACINTO:	1000/700 U2

GRANTS FOR NEW STATIONS

750 NC NEW HOPE:	500 D1
810 TX SOMERSET:	500 D3

APPLICATIONS FROM EXISTING FACILITIES

540 KDFT TX FERRIS:	POWER TO 1000 WATTS
640 WLVJ FL ROYAL PALM BEACH:	DAY POWER TO 25000 WATTS
770 KUOM MN MINNEAPOLIS:	ADD 2200 WATTS NIGHT, ANTENNA TO U2
860 KNUU MN NEW ULM:	ADD 250 WATTS NIGHT, ANTENNA TO U2
930 WFMD MD FREDERICK:	NIGHT POWER TO 2500 WATTS
940 WMIX IL MOUNT VERNON:	NIGHT POWER TO 1500 WATTS

1010 KRKX OR MILWAUKEE:	DAY POWER TO 4500 WATTS
1140 WSPC VA ST. PAUL:	POWER TO 2500 WATTS (1600 CH)
1170 WDFB KY JUNCTION CITY:	POWER TO 1000 WATTS, ANTENNA TO D1
1210 KASY WA AUBURN:	CITY OF LICENSE TO AUBURN-FEDERAL WAY, WA, NIGHT POWER TO 10000. ANTENNA TO U4 (NOTE THAT KASY HAS JUST BEEN GRANTED AN INCREASE OF DAY POWER, SEE GRANTS BELOW)
1230 WMPC MI LAPEER:	NIGHT POWER TO 1000, ANTENNA TO U1
1250 WGL IN FORT WAYNE:	POWERS TO 2400/2000 WATTS
1280 WMRO IL AURORA:	ADD 750 WATTS NIGHTS
1310 KMBS LA WEST MONROE:	POWER TO 5000 WATTS
1370 WLQP GA JESUP:	ADD 2500 WATTS NIGHTS, ANTENNA TO U2
1410 WRSS PR SAN SEBASTIAN:	POWERS TO 2500/2500, ANTENNA TO U1
1420 WACK NY NEWARK:	TO 840 KHZ WITH 5000 D3
1490 KXAR AR HOPE:	REDUCE POWERS TO 690/690 WATTS
1500 KVSN WA TUMWATER:	POWER TO 1000 WATTS
1510 WVVX PA MONROEVILLE:	POWER TO 1000 WATTS, ANTENNA TO D3
1520 WTRI MD BRUNSWICK:	POWER TO 9300 WATTS, ANTENNA TO D3
1550 KXOJ OK SAPULPA:	POWER TO 2500 WATTS
1570 WGHC GA CLAYTON:	TO 1370 KHZ WITH 2500 WATTS D1
1600 WOBS IN NEW ALBANY:	POWER TO 2500 WATTS
1600 WPOM FL RIVIERA BEACH:	POWERS TO 5000/4800 WATTS

GRANTS TO EXISTING FACILITIES

570 WMAX SD YANKTON:	CHANGES IN ANTENNA SYSTEM
670 WWFE FL MIAMI:	RELOCATE XR (NEW STATION)
800 KNKK UT BRIGHAM CITY:	CHANGES IN ANTENNA SYSTEM
910 KIYU AK GALENA:	CHANGES IN ANTENNA SYSTEM
930 KKIN MN AITKIN:	POWER TO 1500 WATTS
940 WKYK NC BURNSVILLE:	RELOCATE XR
1020 KDKA PA PITTSBURGH:	CONSTRUCT AUXILIARY ANTENNA (EVIDENTLY TO REPLACE THEIR OLD LONGWIRE AUXILIARY ANTENNA WHICH IS USED OCCASIONALLY)
1050 KKNX NM LOS RANCHOS DE ALBUQUERQUE:	POWER TO 1000 WATTS, ANTENNA TO D3, RELOCATE XR (NEW STATION)
1100 WYKR VT WELLS RIVER:	CH POWER IS 2000 WATTS
1130 WCBX NC EDEN:	TO 830 KHZ 1000/1000 U2 (CONFIRMS INITIAL DECISION)
1190 WAYD AL OZARK:	TO 1200 KHZ 10000 (1924 CH) D1
1210 KASY WA AUBURN:	DAY POWER TO 50000 WATTS, ANTENNA TO U5
1220 KLIP CA FOWLER:	TO 1210 KHZ 10000/1000 U5
1240 WMWC NC NORTH WILKESBORO:	DAY POWER TO 1000 WATTS
1290 WRCP RI PROVIDENCE:	NIGHT POWER TO 5000 WATTS
1400 KITZ WA TACOMA:	MOVE STATION TO SILVERDALE, WA, RELOCATE XR
1460 WEMR PA TUNKHANNOCK:	NIGHT POWER TO 1230 WATTS
1560 WMIC MI SANDUSKY:	TO 660 KHZ 1000 WATTS D3
1570 WVVW WV ST. MARYS:	TO 630 KHZ 500 WATTS D1
1600 KZUN WA WEST RICHLAND:	RELOCATE STATION IN PRIEST RIVER, ID, DELETE NIGHT POWER, ANTENNA TO D1. (THIS IS A PRECEDENT SETTING DECISION BY THE FCC, KZUN IS AN UNBUILT CP THAT IS BEING MOVED OVER 200 MILES)

OTHERNESS

530 CJFT ON FORT ERIE:	NEW STATION IS NOW OPERATING, THE FIRST TO BE LICENSED BY CANADA ON 530, A FREQUENCY FORMERLY RESERVED FOR TIS STATIONS. HAS TOP 40 FORMAT. WE WONDER HOW MUCH QRM THIS RECEIVES FROM WGR-550 KHZ. ACTUAL MONITORING REVEALS A VERY POOR SIGNAL FOR THEIR 250/250 U1 POWER ON THIS FREQUENCY
640 WLVJ FL ROYAL PALM BEACH:	GRANTED EXTENTION OF CP TO 10-31-86
660 *APP MI MOUNT HOLLY:	REQUESTS EXTENTION OF CP FOR NEW STATION
680 KVGO LA FRANKENMUTH:	APPLICATION FOR NEW STATION DISMISSED
	PINEVILLE:
	REAPPLIES FOR PERMIT TO REPLACE EXPIRED CP FOR NEW STATION. THEIR FIRST REQUEST WAS DENIED BY THE FCC
730 WLFP FL LACEY:	NEW STATION IS ON THE AIR, A/C FORMAT
770 KCHU AK LAKE PLACID:	GRANTED EXTENTION OF CP FOR NEW STATION TO 5-19-87
	VALDEZ:
	EXPECTED TO BEGIN OPERATIONS "IN EARLY AUGUST"
800 WVAL MN CALGARY:	Moved here from 810 KHZ 6-26-86
810 *APP TX NICHOLASVILLE:	GRANTED EXTENTION OF CP FOR NEW STATION TO 9-9-86
840 KTRF KS SAU RAPIDS:	GRANTED EXTENTION OF CP FOR 660 KHZ TO 9-30-86
850 CKRD AB LA COSTE:	APPLICATION FOR NEW STATION DISMISSED
870 WMTL KY LYONS:	REQUESTS CP TO REPLACE EXPIRED PERMIT FOR NEW STATION
	RED DEER:
	MOVE TO 700 KHZ EXPECTED 9-1-86
880 CHOT AB LEITCHFIELD:	IS HERE NOW EX-1580 KHZ
890 KPTO CA EDMONTON:	IS HERE NOW EX-1110 KHZ
	CITRUS HEIGHTS:
	REQUESTS EXTENTION OF CP FOR NEW STATION
910 KIYU AK SURRY:	APPLICATION FOR NEW STATION DISMISSED
	GALENA: NEW STATION IS ON, RELAYS KSKA 91.1 MHZ ANCHORAGE

990	WMRS	WI	MAYVILLE: REQUESTS EXTENSION OF CP FOR NEW STATION
1010	WCBF	FL	SEFFNER-TAMPA: FULLTIME OPERATION IS ON, SKED IS NSP
1030	KMAS	WA	SHELTON: TYPO SEVERAL ISSUES AGO PUT THIS STATION ON 990 kHz, DISREGARD THIS, IT REMAINS ON 1030 kHz
1040	WAMN	WV	GREEN VALLEY: GRANTED EXTENTION OF CP FOR NEW STATION TO 1-2-8
"APP		FL	NOKOMIS: APPLICATION FOR NEW STATION DISMISSED
1050	KKNX	NM	LOS RANCHOS DE ALBUQUERQUE: REQUESTS REINSTATEMENT OF EXPIRED CP FOR NEW STATION
1060	KAHU	HI	HILO: LAST ISSUE WE TYPED THIS STATION TO 1050 kHz
1090	WKII	FL	PORT CHARLOTTE: REQUESTS EXTENSION OF CP FOR NEW STATION
1120	WKOW	PA	OIL CITY: GRANTED EXTENSION OF CP FOR NEW STATION TO 9-15-86
1130	KBMR	ND	BISMARCK: GRANTED EXTENSION OF CP FOR FULLTIME TO 12-3-86
1150	KFHM	TX	SAN ANTONIO: MOVE TO 1160 kHz "IN ABOUT A MONTH"
1160	WKWA	AL	MOBILE: GRANTED EXTENSION OF CP FOR NEW STATION TO 1-12-87
1170	WCXN	NC	CLAREMONT: STATION IS NOT FULLTIME AS INDICATED IN THE LOG, THEY ARE 5000 (1000 CH) D1. CH POWER WAS LISTED AS NIGHT POWER
1180	KNPE	NE	BELLEVUE: REQUESTS CP TO REPLACE EXPIRED PERMIT FOR NEW STATION
1200	CKDA	BC	VICTORIA: MOVED HERE FROM 1220 kHz 7-1-86
	WDCQ	FL	PINE ISLAND Center: NEW STATION IS ON WITH OLDIES, NSP SKED
	WMLI	ME	BREWER: STATION IS NOW HERE EX-1250 kHz
	WWRJ	SC	HOLLYWOOD: GRANTED REINSTATEMENT OF EXPIRED CP FOR NEW STATION GRANTED EXTENSION TO 10-2-86
1280	WXOZ	FL	JACKSONVILLE: STATION IS SILENT
1300	WLNC	NC	LAURINBURG: THEIR FULLTIME 500/500 CP IS NO LONGER IN THE FCC DATABASE, EVIDENTLY IT HAS EXPIRED
1310	WJRA	AL	PRICEVILLE: REQUESTS CP TO REPLACE EXPIRED PERMIT
	WDLF	FL	DELAND: STATION IS SILENT
1320	KOIQ	CA	LEMOORE: STATION IS SILENT
	WHOI	FL	COLEMAN: NEW STATION IS ON WITH STANDARDS
1340	KEEI	AK	VALDEZ: FORMER RELAY OF KBYR-700 IS NOW OFF THE AIR
1360	WEBB	MD	BALTIMORE: FULLTIME OPERATION IS ON THE AIR
1370	KOKE	TX	ROLLINGWOOD: FULLTIME OPERATION IS ON THE AIR
1390	KKDV	CA	FIELDS LANDING: REQUESTS EXTENSION OF CP FOR NEW STATION
1410	WGFN	NY	SOUTH GLENS FALLS: REQUESTS EXTENSION OF CP FOR NEW STATION
1430	WEEF	IL	HIGHLAND PARK: FULLTIME OPERATION IS ON THE AIR
	KYKN	OR	KEIZER: HAS MOVED HERE EX-SALEM, EXPECTS THE FULLTIME BY "FALL"
1450	WWAM	GA	SAVANNAH: STATION IS SILENT PENDING SALE
	WTHU	MD	THURMONT: STATION IS SILENT PENDING SALE
1460	WOLM	FL	LAKE MARY: REQUESTS EXTENSION OF CP FOR NEW STATION
1480	"WRCC"	FL	CAPE CORAL: NOTED AS BEING NEW AND ON IN A MUSE IN V53/181 OF DXN. THE LATEST DATABASE (JULY '86) SHOWS NOTHING IN CAPE CORAL ON THIS FREQUENCY, NOR ANY ASSIGNMENT OF THIS CALL. DUNNO EXACTLY WHAT THIS THING MIGHT BE. HOW ABOUT IT FL DXERS
	WMIB	FL	MARCO ISLAND: IS HERE EX-1510 kHz
1500	WTNE	TN	TRENTON: REQUESTS EXTENSION OF CP FOR MOVE TO 890 kHz
	KVSN	WA	TUMWATER: REQUESTS EXTENSION OF CP FOR NEW STATION
1520	WGNB	FL	SEMINOLE: FULLTIME NOT EXPECTED ON "FOR AT LEAST A YEAR"
1530	WTKG	MI	WYOMING: STATION IS SILENT
1550	WM00	AL	MOBILE: GRANTED EXTENSION OF CP FOR MOVE TO 770 kHz FAIRHOPE, AL TO 7-15-86
1580	WJIK	NC	CAMP LEJEUNE: REQUESTS EXTENSION OF CP FOR 830 kHz
1600	WQZQ	TN	LEBANON: REQUESTS EXTENSION OF CP FOR NEW STATION. THIS COMES AS A GREAT SURPRISE SINCE THIS LONG UNBUILT CP WAS LISTED AS DISMISSED IN THE PUBLIC NOTICES LAST YEAR. THEY HELD A CP TO MOVE TO 1200 kHz WHICH WAS CANCELLED. POSSIBLY THE 1200 CP WAS THE ONE DISMISSED WHILE THE 1600 CP STILL EXISTS. THERE HAS BEEN A LISTING FOR THIS STATION IN BROADCASTING YEARBOOK FOR SEVERAL YEARS COMPLETE WITH NAMES OF EMPLOYEES EVEN THOUGH THE STATION HAS NEVER BEEN ON THE AIR. THE SALES MANAGER IS LISTED AS HERB TARLICK FOR EXAMPLE. WE HAVE BEEN TOLD THAT THE OWNER OF THE CP IS A "COLORFUL LOCAL CHARACTER." I GET THE FEELING THAT THERE IS ONE OF THOSE GREAT RADIO STORIES HERE SOMEWHERE. MORE IN DUE COURSE.

73 AND GOOD DX.

Demy & BKF

JERRY STARR & BUFFALO K. FOOHNMAN

ADDRESS CHANGE

1460 WEMR PA TUNKHANNOCK: Box 507 (FROM WEMR'S PROGRAM MANAGER STEWART WEST WHO IS A NRC MEMBER)

WDZQ(AM)—1979, 1600 kHz, 500 w/D, ICP, 1200 kHz, 5 kW, D, 500 w/N, D-21, Box 1200 (31067) (615) 832-4653. Wilson County Board, Sivca, Inc. Format: MDR. Spec prog. Class 3 hrs, Farm 2 hrs, jazz 3 hrs wkly. ♀ P.L. Severy, pres & gen mgr; Herb Terlick, gen sls mgr; Bob Fenton, mus dir; Wally Blaup, news dir; Gary Brown, chief eng; 55 50, 75, 750.

FROM 1986 B.C. YEARBOOK

FLASH: SOME LATE INFO IN FROM OUR REPORTER IN FLORIDA, JODY HUGHES:

840 WPGS FL MIMS: STATION BEGAN BROADCASTING 5-4-86 WITH REL/TALK AND USA NETWORK
1010 WBIX FL JACKSONVILLE BEACH: DOESN'T PLAN TO HAVE THEIR FULLTIME CP ON THE AIR UNTIL EARLY 1987
1470 WLVU FL CLEARWATER: STATION IS BACK ON THE AIR WITH A/C MORNINGS AND SS AFTERNOONS
1520 WEXY FL WILTON MANORS: FULLTIME OPERATION IS ON THE AIR. NSP NOW

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FORMATS

⑥ Tony Fitzherbert, 356 Jackman Avenue, Fairfield, CT 06430

The big news around here is that WMMM-1260, in Westport has dumped its fine adult contemporary programming and is trying to carve out a bigger share of the Fairfield County market with comedy programs. "Comedy Radio" runs tapes of old radio comedy shows, and is trying to attract listeners with "Fun Bucks" contests. Our records show WMMM to be the only AM station in the U.S. to run all comedy, as KLAZ-1230, Murray UT., and WJOK - 1150, Gaithersburg, MD., found the format to get as stale as old cigarettes with the listeners.

Up to Cape Cod on vacation with my family. Cape AM radio is super dull, with one automated and the other is a repeater for an FM rock station. I did have a delightful visit with Ernie Cooper while in Provincetown, as he did his "Outer Cape Concert Hall" show over WOMR-91.9, a most interesting public supported station staffed by volunteers, serving the Cape with an unusual assortment of music.

Jody Hughes sent the following information to Dave Schmidt, who sent it to Paul Swearingen, who relayed it to me. WGUL-FM, in Newport FL. has acquired WAMA-960, Tampa which will become WGUL-AM, and adopt WGUL's MYL format. As part of the transaction, WYOU-1550 will become WAMA and will continue its Hispanic-based format. Also, WLWU-1470 switched to Spanish programming for a few days and returned to English and adult contemporary music.

This column is brought to you by Pete Nolan (N), Jody Hughes with a Florida update, and is designated (H), and your editor (F). On with the show....

550 CFJC BC Kamloops - CWM (N).
 560 KSFO CA San Francisco - Now rock oldies (N).
 590 WAFC FL Clearwater - Plans 8/1/86 air date w/ NBC, CWM (H).
 650 KIKK TX Pasadena - CWM, simulcasts w/ FM (N).
 710 WEKK KY Williamsburg - CHR (H).
 930 WLUF FL Haines City - Was rock oldies, now REL (N).
 950 WYWW KY Barbourville - CWM (H).
 1040 WYFX FL Boynton Beach - Black programming for West Palm Beach.
 KKRE CO Monument - New station, REL (N).
 1050 WSEN NY Baldwinsville - Drops CWM for Rock oldies (N).
 CHUM ON Toronto - Drops CWM for AC/oldies (N).
 1060 WTPP MA Natick - Var, even SS on Saturday PM (F).
 1070 WNCT NC Greenville - Now rock oldies (N).
 1110 KISD WA Oak Harbor - Oldies for Victoria BC (N).
 1140 WPRW OK Oklahoma City - Ex-KATR, AOR, now BL (N).
 1150 WMST KY Mt. Sterling - CWM (H).
 1170 WKPE MA Orleans - Ex-WVLC (Voice of the Lower Cape), now simulcasts w/ FM, "Kape-104", ID's for Orleans-Hyannis (F).
 1190 WECC GA St. Mary's - New station, REL, GOS (N).
 1220 WNNR CT Hamden - Ex-WSCR, oldies, "Winner Radio" (F).
 WGAR OH Cleveland - CWM drops satellite for FM simulcast (N).
 WRBC RI Providence - Still ethnic (F).
 1230 KONC AZ Phoenix - Fine Arts, ex-KFLR, REL (N).
 KSZC CA Barstow - Returns from silence w/ oldies (N).
 KGFJ CA Los Angeles - SMN Black AC (N).
 WBOP FL Pensacola - A (1) NX, R and B (H).
 1240 WOCB MA West Yarmouth - CBS NX, Automated Ad. Standards (F).
 1260 WMMM CT Westport - All comedy radio, although they did (F) keep their high quality announcing staff.
 WLKK PA Erie - Drops CWM for EZL (N).
 WPCF FL Panama City Beach - GOS (H).
 1300 WGRC NY Spring Valley - Noted off the air (F). Silent (N).
 1310 WGH VA Newport News - Drops CWM for Travelers' info (N).
 1320 KQIQ CA Lemoore - Was SS, now silent (N).
 1330 WYGO KY Corbin - CHR (H).
 1340 WTAN FL Clearwater - CNN News (H).
 WFSH FL Valparaiso - CWM/MOR (H).
 WNBH MA New Bedford - Automated Ad. Con (F).
 1360 KQIZ TX Amarillo - Now silent (N).
 WAXE FL Vero Beach - NOS/BBD (H).



139 west gay street
west chester, pa. 19380

And still more formats to update!!!

1370 WKFD RI Wickford - "Bay Radio", clustered Ad. Con, "Music from the '60's, '70's, and '80's" (F).
 1390 WAPR FL Avon Park - GOS (H).
 1400 WNUE FL Ft. Walton Beach - UPI Nx., Ad. Con. (H).
 WALE MA Fall River - Lots of telephone talk (F).
 1410 WMYR FL Ft. Myers - UPI and APR Nx., CWM (H).
 WATD MA Brockton - "Music You Remember" Ad. Stds (F).
 1420 WBSM MA New Bedford - Nx/Tlk, "Your Information Station" (F).
 1430 WLTC FL Panama City - Urban Contemporary (H).
 1440 WAJC FL Winter Park - UPI Nx, REL (H).
 WEZZ KY Williamsburg - CWM (H).
 WZEP FL Defuniak Springs - A (e) Nx., MOR/Nos (H).
 1470 WLWU FL Clearwater - Ad. Con in the AM, Eth in the FM (H).
 1500 WKWQ MI Battle Creek - Drops Ad. Stds. for Rel (N).
 WWBC FL Rockledge - SBN, REL, to 770 in the Fall (H).
 1530 WCEG MA Middleboro - Not on the air as yet (F).
 WTKG MI Wyoming - Now silent - did not make it on childrens' programming (N).
 1540 WADM In Decatur - Now Ad. Con. (N).
 1550 WKIQ FL Inverness - Ad. Con. (H).
 1580 WENO FL Chattahoochee - REL (H).
 1590 WJBQ ME Gorham - Back on the air, was WASY, WJBQ was the former rocker on 1440, which started in the '50's as WJAB, 1440 is now WMER (N) and (F).
 1600 KNWA AR Bellefonte - New, Rock oldies (N).

And that is it for the summer months. Thank you Jody and Pete for a good column. And when you hear WMAL, KCBS, and KDKA go to Thornton W. Burgess stories, such as "The Adventures of Jimmy Skunk", send it in to your formats column.

73's.



Arthur Cushing
Has heard 6,000 short-wave stations

Blind man uses short-wave to listen to world

By Janet McFarland
Citizen staff writer

Arthur Cushing spends his life listening to radio. Every day beginning at 6 a.m. and ending at 11:30 p.m., Cushing sits in his New Zealand bungalow and listens to short-wave radio broadcasts from places such as Canada, the U.S., Britain, the Netherlands and Vatican City.

Despite being blind for the past 32 years, Cushing has risen to the top of his unusual career.

He is paid for checking on the signals of the world's various

broadcasting organizations as they arrive in the South Pacific, including CBC's Radio Canada International.

With an estimated one million short-wave radios in New Zealand alone, he says his work is important to many people who count on being able to hear their favorite programs clearly on the correct channels.

When he isn't monitoring short-wave radio signals, Cushing listens to a regular AM radio to try to hear radio programs from as far away as possible.

He has heard more than 2,600 regular AM stations from 162 different countries, making him one of the top people among radio hobbyists around the world.

He has even heard CBO radio in Ottawa from his New Zealand listening station. In all, he has heard more than 6,000 short-wave radio stations.

Now Cushing is on a month-long trip to North America with his wife Ralda.

Cushing went blind in 1954, after a lifetime of progressively poorer sight and more than 20 years monitoring radio signals part-time for pay.

He uses a special radio with digital controls like a numbered pad on a calculator, so he can punch in the frequency of the station he wants to listen to without having to adjust a dial.

Besides listening to broadcast signals, he has published a book on short-wave radio listening and

writes weekly columns for his hometown newspaper and the largest magazine in New Zealand.

Cushing also has his own radio program that he tapes at Radio New Zealand and is sends to listeners all over the world.

The program is an update of the various news in the world of short-wave radio listening including things like which broadcasts have switched frequencies or gone off the air.

Cushing was recently in Montreal representing the South Pacific Association of Radio Clubs at an annual meeting of the Association of North American Radio Clubs.

Cushing was presented with a plaque from the CBC at the meeting in recognition of his contributions to their broadcasting in the South Pacific.

The Citizen, OTTAWA, CANADA
VIA K.6 SCOTT



p.o. box 1561
crownley, la. 70526

VERIFICATION SIGNERS

Wayne Heinen, 4131 S. Andes Way, Aurora, CO 80013

Catch "AM Interlude" on HCJB Saturday nights.

173	R. Med	C. Thuret	HH	1380 WSYBq	David L. French CE	CV
173	R. Med	J. Dryk	HH	1380 WYNKL	Boyd Leake AE	BP
570	KRQXlm	David Hunn CE	PT	1390 KBLQpu	Wayne Richards PD	WH
580	KZMX	Tracy Bastian O/GM	JW	1390 WMPOL	John E. Kerr Jr. M	BP
590	WRQWq	Chas V. Henry CE	GV	1390 WPLM1	Dave Riley E	CV
680	WRVRlz	Tom Sheddick CE	JW	1400 WEST1	U/U	CV
690	WADSL	Marshall T. Smith CE	GV	1420 KINX1	Ty Turner GM	PT
690	WYIS1b	Jose L. Rivera GM	GV	1430 WKEN1mz	Bob Smith O	CV
690	WZAP1	R. A. Morris P/GM	BP	1440 KWEZ1	U/U	PT
700	KFAMluz	Gerald Avery OpA	WH	1440 WAJRL	Dale Miller VP/GM	CV
710	KAPZrmz	Elizabeth Capps	JW	1450 KENALZ	Jack Reeves	JW
730	WMPClzg	Kenneth Amspaugh CE	GV	1460 WFDQR	Larry Browdy PD	CV
750	KAMALmbu	Kevin L. Jenkins CE	WH	1460 KRC51b	John Hudson PD	WH
760	KSJllu	Jeanette L. Nelson VP	WH	1460 WWCL1	John N. Rizzo CE	CV
800	CGJAD1	Mark Kromagh DoE	GV	1470 KVNLb	Steven W. Hawkins	JW
820	CHAM1	Don Kay GM	HH	1470 WFSRLb	Jeff Davis NxD	BP
820	CHAM1	Ron Meuser TD	HH	1470 WT2ER	U/U	BP
820	WC2E1	Connie Urary O/M	BP	1480 WFWCPu	Raymond Woolfender Sr. P	HH
830	CFJRL	J. A. Radford M	GV	1490 WRNBU	U/U GM	HH
880	KIKR1mbu	Errol R. Coker CE	WH	1510 WNR	Fred Kelley M	BP
900	WILClu	Alfred L. Hammond CE	HH	1520 WKBW1bm	Tom Atkins CE	BP
910	WKEQ1	Don Lewis GM	BP	1530 KHATfm	Ron Simonson CE	PT
950	KPSAp	U/U	JW	1540 WGRK1	J. C. Boggs PD	BP
950	KLIK1	Tom Holmes CE	PT	1540 WSIVLm	James R. Wall GM	CV
950	WQBR	Lester Lovejoy CE	BP	1550 WOKJ1	Phil Scott CE	PT
980	WA2SLbm	John Stevens PD	BP	1560 WKGMI	John Crawford PD	BP
980	WMPCL	Marty Sacks CE	BP	1560 WYZD1	Benny Jarrell SLSM	BP
990	KRSLp	Wayne Grabke M	JW	1570 WFEL1	Norm Collins CE	CV
1000	WSPFlc	Scott Conley O/M	BP	1570 WGHCI	Jan Vinson PD	BP
1020	WJEPlm	Bucky Carlton GM	BP	1570 WMR1	Pock Agee M	PT
1030	WBZEL	Kathie Thieme BusM	HH	1570 WQJW1	Ed Weigle DJ	CV
1040	KPBClm	Joan McCoy	PT	1590 WETTLBm	Richard Renaberg PD	BP
1050	WMSG1	Gary Daniels Sec/Tres	GV	1590 WUSJLb	Ben Cagle M	BP
1050	KLCH	Wally Christensen	JW	1600 WNGALbm	Duane Tucker GM	BP
1070	WHYZ1b	Ray Slatton CE	BP			
1090	KAAYgb	Shawn Peper CE	JW			
1090	WMTY1	Stan Woodward OpM/CE	BP			
1100	WYKRLmqz	Gene Puffer P	GV			
1120	WUST1z	Koko Farrow M	GV			
1130	KAAB	Bob Cornell PD	JW			
1140	KPFW1	Dennis Pharr CE	PT			
1150	WRUN1m	Ross Hewison CE	GV			
1170	KVSp1	Gil Uranga	JW			
1190	WBDY1b	Buddy Fry	BP			
1200	WAGEf	Paul C. Draisey GM	BP			
1220	WJUN1m	David N. Supplee M	CV			
1260	WQRrh	Ed Swicegood M	BP			
1260	WNRK1	Dave Schmidt CE (NRC)	GV			
1270	WVOL	Pat Smith NxD	BP			
1280	KSOK1bz	Steve Owens OpM	JW			
1280	WEIM1	Frank Filipone GM	GV			
1290	KHSLlu	Don Shore M	WH			
1310	KAAMpu	U/U ExVP/GM	WH			
1310	WSSJLb	Dean Paul DJ	GV			
1320	WBB1	R. "Bat" Lyons GM	GV			
1330	KWLOlm	Ken Drewes CE	PT			
1330	WNYM1	H. Ed. Smith CE	GV			
1330	WHL1	Maurice L. Green DJ	BP			
1340	KS1D1b	David Young GM	JW			
1370	WABD1	Lee Erwin AM	BP			
1370	WCCN1	U/U	PT			
1370	WCOA1	Carl Foster AB	PT			
1370	WHEer	Thos. W. Patterson M	GV			
1380	KAUL1	Bland Perry CE	PT			
1380	WHRSL	Charlie Fox OpM	BP			
1380	WMPSlbm	Charles M. Trub P/GM	BP			
1380	WMTD1	Lonnie R. Mullins GM	GV			
1380	WQHKLm	Mark Goff ACE	BP			
1380	WRKG1mz	Jeffrey A. Storey GM	GV			

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Fully equipped in operation
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309 N. Tioga P.O. Box 6432
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Inspection of Studio and Transmitter
by appointment with Trustee

DOMESTIC DX DIGEST - EAST

William R. Hale, 9823 N. Meadow, Converse, TX 78109

I'm sending in what I have received, although not a lot. There seems to have been a little mixup as to when the changeover was to take place, so will get these in to HQ so they will be current. Will reiterate what Dave has said time and time again: keep it current; keep it in order; and since we need a standard, use ELT; and be NEAT! Type or print, please. Let's go! SPECIAL

830 KFLT AZ TUCSON - Heard here in San Antonio by both Artie Bigley and myself w/religious programming. Over WCCO both before and after pattern/power switch. (My 1st AZ! BH-TX)
1130 KWKH LA SHREVEPORT - 6/27 0637 w/EBS tone & annct for flash-flood warning due to "over 5" of rain overnight" (BH-TX)
1360 WIXZ PA McKEESPORT - 7/29 Noted w/no sked signing off 0000-0600 night, also w/ satellite news net (JM-PA) JM-turn over for secret mag-(Any 1 can do this)
1430 WBMK TN KNOXVILLE - Silent again, probably won't be back. (SF-TN)
KSKS OK TULSA - 7/24 0415- w/easy oldies, "Stereo AM-1430", new call? I still have it as KELI (BH-TX)
1510 WXVX PA MONROEVILLE - As listed in May's AMS, change from WNRZ two months ago...BLK/SOL Mx (JM-PA)

MIDDAY TO MIDNIGHT

770 WYRV VA CEDAR BLUFF - 7/29 2045 loud o/WJMW w/s/off, SKW CP is on per announcement (SF-TN)
1200 KYOO MO BOLIVAR - 7/23 Good o/WOAI w/C&W mx prior to simple data s/off and FM invite; ex-1130. (SF-TN)
1380 WYSH TN CLINTON - 7/28 2100 good o/others w/s/off mentioning address, power, return at 6 AM (JM-PA)
1580 WOXR AL OXFORD - 7/29 2100 good u/WBBE at s/off, legal ID as "Oxford", so CP is on, ex WEYY Talledega (SF-TN)

MIDNIGHT TO MIDDAY

1360 WIYN GA ROME - 7/23 0600 briefly caught s/on at the beginning, then faded (JM-PA)
WEBB MD BALTIMORE - 7/30 0150 strong end fading, w/BLK/SOL mx, ads, wx & "the Power Station 13-6" (JM-PA)
1440 KWEZ LA MONROE - 6/27 0640 w/EZL & annct 'One of the nicest things about Monroe is KWEZ-1440' (BH-TX)

TIS and other...

1610 TIS OH HUBBARD - "thought at first to be at Akron-Canton Airport. Turns out to be a very low powered (1 watt or so) TIS at Ohio Tourist Info and Rest Area at I-80 on OH/PA line, is S-9+20 daytime, very weak at night, about 3 miles from my QTH. XR is in a box about 12" square on metal pole with short whip antenna" (JS-OH)

Reporters to this edition of 'hope it turns out OK':

JS-OH Jerry Starr-Hubbard, OH
JM-PA John Malicky-Pittsburgh, PA Superadio II
SF-TN Steve Francis-Alcos, TN
BH-TX Bill Hale-Converse, TX Superadio

That's it for this time. This column will return next issue with more STUFF, even if I have to report it myself!

73,

WNERK 990
RADIO

MUNCIE BROADCASTING CORPORATION
ROUTE 4 ■ MUNCIE, INDIANA 47302

• * CPC TEST
• * KUYO, Casper, WY
Mon. Sept. 15
830 KHz
0200-0500 ELT
Clark Prim, Verie Signer
More details to come in the next DXN.....
via Wayne Heinen

DOMESTIC DX DIGEST - WEST

10

Nancy Hardy, 2301 Pacific Avenue, Aberdeen, WA 98520

Next DDWD-West deadline is Friday Sept. 5. Please use one side of the sheet of paper, eastern time.

SPECIAL

680 KLDY WA LACEY - 6/30 0956 stumbled upon this brand new station while staying in Olympia. Lady DJ ending weather "At K-L-D-Y," adult contemporary music. 0959 "K-Lady is K-L-D-Y, 6-80 A-M in Lacey, Wash," more AdCon. Called station; first official day on was Monday, June 16, after "two months of playing around." Daytime only, mono, no network yet. (BH-WA1)
 1200 CKDA BC VICTORIA - Now here ex-1220 as of July 1. Same contemporary hit format. Excellent at night but almost nil midday. (BH-WA1)
 MIDDAY TO MIDNIGHT
 1610 KOD762 WA ASHFORD - 6/30 1500 noted off air & highway sign covered up. (BH-WA2)
 KOD767 WA NISQUALLY ENTRANCE (Mt. Rainier Natl. Park) - 6/30 1510 this TIS operating as usual. (BH-WA2)

REPORTER

BH-WA/Bill Hardy, Aberdeen, WA/PRG-7, Radio West loop
 BH-WA1/Bill Hardy, DX'ing at Olympia, WA/GE 7-2963A portable
 BH-WA2/Bill Hardy, DX'ing near Mt. Rainier Natl. Park, WA/car radio

NAB Daytimers, FCC Seek DST Solutions

by David Hughes

Washington DC ... The NAB's Daytimers Committee met with FCC Mass Media Bureau Chief James McKinney 9 June to discuss possible solutions to the loss of AM drive-time programming associated with the expansion of daylight savings time (DST) next year.

However, by RW's mid-June press time, neither McKinney nor Daytimers Committee Chairman David Palmer would reveal any specific solutions being discussed.

McKinney did say, however, that the daytimers committee was mindful of international agreements that place firm restrictions on the level of interference that would result from an increase in presunrise authority (PSA) power levels for daytimers.

Earlier, McKinney told the NAB that since the "laws of nature" and the "immutable laws of physics" govern radio wave propagation, there was little the FCC could do to change PSA levels.

Some daytimers have previously indicated that they would like to see a 50 W minimum power level be instituted for PSAs, while others favor a plan that would allow daytimers to increase to full power at a specific time, such as 6 AM, rather than at local sunrise.

McKinney said it was up to the daytimers committee to decide on a solution and propose it to the FCC. He said the Commission would then treat it as it treats any other rulemaking proposal.

"The situation is difficult to solve, but

it is not impossible," he said.

Palmer, of WATH/WTXQ, Athens, Ohio, said that, as of 18 June, the daytimers' group had scheduled more meetings in the next few days. "Many different things are being looked at," he said.

Many daytimers were upset about recent bills passed by both the Senate and the House that propose starting DST on the first Sunday in April, rather than the last Sunday of the month, thereby adding three weeks of later sunrises and sunsets.

The House bill would also extend DST one week beyond its traditional end on the last Sunday of October.

A Congressional conference committee was examining both bills and working out differences, according to the NAB. The final version must then be signed by the president to become law.

McKinney indicated that he expected presidential approval of the bill.

With the extra hour of darkness each morning in early and mid-April, daytimers fear they will suffer audience losses because they will not be allowed to broadcast at their full power level until sunrise, thereby missing out on an hour of revenue-generating time.

If DST is extended, daytimers will be forced to utilize their much lower PSA power levels for an hour of prime morning drive time instead of operating at full power. Many PSAs are below 50 W.

Related Story Page 14

KPCR

AM 1530 FM 101
 BOWLING GREEN, MO. 63334



KCOB

P.O. BOX 1286 NEWTON, IOWA 50208

FM DX DIGEST

11
 Ernest R. Cooper, 5 Anthony St., Provincetown, MA 02657

Welcome to FM DX Digest! With the fine conditions we truly expected more support for this issue than we received - nothing arrived on either Saturday, July 26, or Monday, July 28, the latter being the deadline date! So, we proceed, doing the best we can with the tools we've got.

88.1 WUWF E FL Pensacola, 7/9, young child reading ID, 1900. RS-NJ
 WRGN T PA Sweet Valley, 7/1, 0830, REL, uses "Good News 88." JF-NJ
 WUWF E FL Pensacola, Kids America program, 7/9, 1900. JE-NJ
 WJIS E FL Bradenton, 7/10, 1130, REL, ID, + Joy-88. JF-NJ
 WJIS E FL Bradenton, unnn, in again on 7/8 @ 1126 w/NX. "ERC-MA
 WMAW E MS Meridian, harpsichord music by William Byrd, 7/10, 1002+, another of the WMA- "PRM" network stations, no verie yet from the 6/15 report, or this one. ERC-MA
 88.3 WBGO T NJ Newark, 7/25, 0301, soul music, unnn here. ERC-MA
 88.5 WAMU T DC Washington, fourth time heard, still no verie, this on 7/25 @ 0230, repeating previous day's news features. ERC.
 KUMR E MO Rolla, 7/7, 1828, NPR, ID, & local NX. JF-NJ
 WKPKX E FL Sunrise, 7/8, 1222 "Our mission is to bring Quality Rock (??) to South Florida, WKPKX, FM-88." Verie received, 'tis a high school outfit. ERC-MA
 WMSU E MS Hattiesburg, 7/9, 1822, Big Band program, ID, then classical music. JF-NJ
 88.7 WBFO NY Buffalo, Sat. 7/19, inaudible to strong, in/out. HH-WV
 WRWA E AL Dothan, 7/10, 1200+, with triple ID for WRWA, WTSU, and WTJB, NX, and pop oldies. Report went to WTSU who verified promptly for their own station on 89.9, but no reply as of 7/28 for this one. ERC-MA
 90.1 WBFV G MA Charlton, a high school station, is now running AN and relaying WCUW. Neither station so far has been willing to verify this arrangement. Help, Tom Farmerie? ERC-MA
 89.9 WMAB E MS Mississippi State, 1910 7/14, mx by Arnold Schoenberg solo by Berlioz' Symphonie Fantastique. No report sent, as I await the fate of the earlier reports to WMAE, WMAW.
 89.3 WPFW T DC Washington, 7/25, 0238+, good signal Soul-Gospel. ERC-MA
 WRMB E FL Boynton Beach, REL talk, unnn, has been heard several times over the last few seasons. ERC-MA
 90.3 WXLV T PA Schnecksville, FINALLY made it thru WJTL/WESS/etc., rock, ID, then a polka program, 7/10, 1500. JF-NJ
 90.7 WXEL E FL West Palm Beach, ID, & request for donations, 7/10, 1023, o/local WFUV. JF-NJ
 91.1 CJRT ON Toronto, pretty good signal but splash from WTRM, almost a regular in the mountains; most frequent Canadian. HH-WV
 91.3 WTRM VA Winchester, brand new station, strong. I followed them home on the car radio, held up well till Tysons Corner, VA & became poor. Weak in Chevy Chase driveway! HH-WV
 91.5 WUAL E AL University, 1828 w/All Things Considered, and local breaks, 7/9, verie already in. ERC-MA
 92.1 WGLL T PA Mercersburg, 7/13, 0220-0310, tentative, old rock, 92.1-Gold IDs, plus mention of MD & PA lotteries, Cumberland Valley. I believe they ran an hour without a legal ID. WKQV/WMJW/WSEN also on channel. JF-NJ RS-NJ
 WMMK E FL Destin, 7/9, 1905, "The Panhandle's Most Active Station." Yazzoo City, 7/14, 1855, local ads. RS-NJ
 WJNS E MS Winnfield, 7/14, 1930, mentioned AM-1270. RS-NJ
 KVCL E LA Moyock, "Magic 102", pretty good music, (??-ERC) & ads and Magic WX, 6/22, 0745-0835. HH-MD
 WOFM NC Key West, 5/25 1146, in loud w/soft mx, automated rock, and ID. HJH-PA
 92.5 WFYN E FL Starview, with "Starview-92" + call, rock, 6/27, 2144. JF.
 KLPL E LA Lake Providence, 7/10, 1045, WX, ads, c/w mx. JE-NJ
 92.9 KNIN E TX Wichita Falls, 7/5, 1925, rock, Power Hits 92.9 + call. BFL
 WZEZ E TN Nashville, 7/10, 1001, ending NX, "Easy-93" + call, BFL.
 WLTJ PA Pittsburgh, good, "Light FM WLTJ", ex-WPNT. HH-WV
 KNIN E TX Wichita Falls, 7/5 1920, only skip station heard this night! RS-NJ
 93.1 WMTI E FL Miami, 7/10, 0951 w/Wientowski Violin Concerto ending, mention of "The World's Most Exciting Music." Verie in, says classical all day, jazz midnight to 0600. ERC-MA
 93.5 WSWN E FL Belle Glade, 7/8, 1156-1208, c/w, including song "Gimme a Redneck Woman," NX @ 1200, back to c/w. ERC-MA
 WGYL E FL Vero Beach, BFL, 7/8, 1204-1218, alternating w/WSWN. ERC-MA
 WYXZ E SC Allendale, 1838-1859 w/BB scores, others sports news, & tele-talk with listeners on sports subjects, verie back.

93.5 WSCG T NY Corinth, 6/25, 2118, w/ID in WSBG null (WRTN off all evening), I believe still with c/w. JF-NJ

93.7 WBZZ T PA Pittsburgh, 7/5, 1937, heard while looking for Skip. (He's out in Kansas, Bob, hi -ERC) RS-NJ

KITT E LA Shreveport, 7/14, 1925. RS-NJ

KISR E AR Fort Smith, 7/14, 2010, slogan is "Kisser." RS-NJ

WFUZ E FL Ocala, 5/25 1245 "Lite-93.7," IDs. HJH-PA

94.1 WOW E NE Omaha, 1915, in WYSF null, weak opening, 7/7. RS-NJ

94.3 WNJY E FL Riviera Beach, 7/8, 1213+, w/old MoR, including Glen Miller's "In the Mood," commercials for Palm Beach, West Palm Beach, and Lake Worth, verie in. ERC-MA

WMUM E FL Marathon, 7/8, 1216, w/info on hurricane plotting, and "WMUM, Stereo Island 94," my first Keys station. ERC-MA

94.5 KSMS E LA Lafayette, 7/14 2015 rr, T-40 format w/many IDs. Does not seem to use any slick non-call ID like so many FMs are increasingly doing. HJH-PA JP-NJ/

94.9 WYNF E FL Tampa, ID, rock, last heard as WLZY-FM a LONG time ago!

WINZ E FL Miami Beach, 5/15, 1151, local ads for the area, no call or actual ID heard. HJH-PA

95.3 WKZB E MS Drew, 7/14, 1905, country music. RS-NJ

KASO E LA Minden, 7/14, 1858. RS-NJ

KQKI E LA Bayou Vista, 7/8, 1112, KQKI/KDLP dual ID, c/w. JF-NJ

WFTR E VA Front Royal, 7/8, 1145; a big surprise, WX info with temperature for Winchester and at WFTR, NX @ noon. At one point, WSPI Shamokin faded up (Spy-95). JF-NJ

WTBG E TN Brownsville, 7/10, 1000, ID. JF-NJ

KZBL E LA Natchitoches, 7/14, 1912. RS-NJ

KMAR E LA Winnsboro, 7/14, 2025. RS-NJ

KSAR E AR Salem, 7/14, 2015, Music Country 96. RS-NJ

96.7 KASX E OK Ada, 7/14 2019, ads for downtown Ads. RS-NJ

KWCL E LA Oak Grove, 7/19, 0137+, Delta Country Radio + call, country music. JF-NJ

WQCM T MD Halfway, weak, 7/13, 0140, rock, uses call plus a Q slogan: WYRS a pest, but WCEI & WTSX were off. JF-NJ

96.9 WAIW E FL Jacksonville, 5/25 in w/rr @ 1229 w/interference from WINK-96.9 in Fort Myers. HJH-PA

KTIZ E LA Alexandris, rock, SID (Z-96.9 + call), 7/10, 1053. JF-NJ

97.3 WAIA E FL Miami, 5/25 1033, the first one to show in this opening with "A-1-A" IDs. JF-NJ (That's a shore highway number; a "suburb" of U.S. 1 - ERC)

97.5 WPCV E FL Winter Haven, 1232, w/country mx & ID. HJH-PA

KCTT E AR Yellville, 7/14, 1915. RS-NJ

KPCH E LA Winnsboro, 7/14, 2025. RS-NJ

97.9 WRMF E FL Palm Beach, ads, and upbeat MoR, 7/10, 1021-1026. ERC-MA

WSIX E TN Memphis, supplanted WRMP 7/10 1026-1032, rr & ads. ERC

98.3 WDLT E AL Talladega, 7/10, talk of local contest winner - a seafood platter dinner! ERC-MA

98.9 KTMO E MO Kennett, 7/14, 1928 w/severe T-storm warnings, probably the very reason for this E-Skip session! ERC-MA

KTUX E TX Carthage, 7/14, 1932-1951, in/out w/KTMO, my first Texan here, thanks to a phoned tip from Joe Fela who said they were pounding into South Plainfield. Report sent; letter "bounced", but I called Information & they gave me both phone number and mailing address, the latter being 202 Shelby, Carthage, 75633 - this is a new station. I had thought I was too far from Texas to log an FM there, but Carthage is just over the LA line from Shreveport. ERC-MA

99.5 WJBR T DE Wilmington, "Bright 99.5," 7/25, ads for a moonlight cruise, other ads too, & MoR. ERC-MA (unn)

99.7 WMC E TN Memphis, 7/14, 1935. RS-NJ

WJMI E MS Jackson, 7/14, 1823, Black mx, first skip of the day. Media, "Kiss-100", AdC programming, local ads & PSAs, 7/25, 0316-0331+, heard again "in the morning" @ 0959! No sign of regulars WHEB or WZOU. ERC-MA

100.1 WJRZ T NJ Manahawkin, in all day long 7/25 like a local w/rr. ERC.

100.3 WKSZ T PA Newark, good, often heard. HH-WV

WCLT OH Huntington, stop channel at times, 7/19. HH-WV

100.5 WKEE WV Huntington, stop channel at times, 7/19. HH-WV

WOMP OH Bellmeire, battle w/WKEE, WOMP usually on top, 7/19. HH-WV

100.7 WHUD T NY Peekskill, 7/25, 0738, old MoR, no WZLX, local! ERC-MA

WNBR T NJ Wildwood, 7/25, 0947 and in the rest of the day, again no sign of WZLX or WHUD. Last year they sent me a CM but no letter, so a try for a v/l; rock mx. ERC-MA

100.9 WALX E AL Selma, "Stereo 101 + call, rock, 7/9, 1833. JF-NJ

WEZG T NY North Syracuse, 7/1, 1600, ID, BPL - weak but steady. JF.

101.1 WGMR PA Tyrone/State College, 7/19, way o/WWDG, BPL. HH-WV

101.7 WOVU DE Ocean View, 7/6, 0005-0048, good, a real surprise. I did not know this one was on, as WNNN NJ blocks this channel, apparently off the air for the AM. HH-MD

103.1 WGNY T NY Newburgh, unn. 7/25, 0210 and again @ 1010. ERC-MA

103.3 WMRQ L MA Boston, ex-WHTT, noted with these new calls on 7/8, "Boston's Quality Rock." (Quality Rock???) So, still another rocker for Beantown. ERC-MA

104.1 WPAY OH Portsmouth, pretty good QRM from a GOS station. HH-WV

104.3 WELA OH 7/19, 1115.

104.5 WQKT OH East Liverpool, a real surprise, no sign of WJSY but then blocked @ 1131 by a strong OC which had to be Harrisonburg, VA. WJST must have had XR problems. HH-WV

104.9 WSRD T NY Webster, 1145, usually on top, 7/19. HH-WV JF-NJ/ Johnstown, 7/2, 1505, ID (does NOT use "wizard" as did the old WSRD of Jerry Starr; old rr, mentioned being on the METS network. (They must be good guys, then -ERC)

105.1 WQXK** WV Clarksvil, no sign of Baltimore which is pretty well blocked on West side of mountain. 7/19, 1211. HH-WV

105.3 WDAS T PA Philadelphia, 7/25, Soul mx, solid signal, 0204, and still there at my awakening @ 0756! ERC-MA

106.1 WZKZ T NY Corning/Elmira, 7/11, 1030, "KZ-106", rock, local ads. Philadelphia, 7/3, 2019-2012 (??-ERC) Good, WTRK, "Electric 106." (What are the others, gas?? -ERC) HH-MD

106.3 WKIP T NY Mount Kisco, 7/25, 0806-0817, rock, & traffic reports; a reluctant verifier. ERC-MA

106.5 WEWK WV Clarksvil, no sign of Baltimore, which is pretty well blocked out on W side of mountain. HH-WV

107.1 WZFM T NY Briarcliff Manor, 7/25, 0800-0805, lots of local ads & news, into rr, no sign of usual WOTB/WWJB/WERZ, ERC-MA

WKJY T NJ Long Branch, 1830-1900+ 7/25, like a local, all others happily among the issuing; one of my most-wanteds, AdC, lots of local ads. ERC-MA

Reporters:

RS : Robert Smolarek, Whitehouse Junction, NJ. Carver TX-11.

JF : Joe Fela, 150 Robert Place, South Plainfield, NJ 07080. McIntosh/

HH : Hank Holbrook, DXing at Fair Haven Cliffs, ND. (HH-MD) MR-78.

HH : Hank Holbrook, DXing from Keyes Gap, WV, Toyota Station Wagon's AM-FM radio w/vertical antenna. (HH-WV)

HJH : Harry J. Hayes - 9 Henry Street, Wilkes-Barre, PA - 18702. Sony ICF 2001, rabbit ears.

ERC : Ernest R. Cooper - 5 Anthony Street - Provincetown, MA, 02657. Realistic STA-52 plus McIntosh MR-78 & Finco 12-element rooftop rotary beam.

Comments:

Bob Smolarek. After a great May, June was a big disappointment, but July has been good, especially July 14. Many of the Class A channels were several deep with stations; many went unID. See you in Jamestown! (Site of the WTFDA Convention, 8/1-2-3) -ERC.

Joe Fela. I finally got a Stereo Probe 9 on the roof (w/rotor) towards the end of June. I originally planned to have two of these stacked but have had problems getting the stacking kit. I'm very surprised, in a positive sense, with the performance of a single SP9.

Hank Holbrook. DXpedition to Keyes Gap WV using Toyota station wagon and its AM/FM radio with vertical antenna. Parked at the scenic overlook at Keyes Gap, on Route 9 just over the WV line between Hillsboro VA & Charles Town WV. This spot overlooks the Shenandoah River flowing several hundred feet below. The sign here says Keyes Gap is the historic gateway through the Blue Ridge into Shenandoah Valley. I did a lot of DXing here in the 60's & returned in 1981 after purchasing the Toyota. All mobile DXing is within a 50 mile radius of our home at Chevy Chase MD. Sat. July 19, 0825-1315 EDT, some of the more interesting stations noted were listed.

Harry J. Hayes. I didn't get in on any FM on 6/10-11, in fact, was surprised to see so many did so well on those days. Seems I was awful busy at work on those days so I didn't monitor the set much at all on the 11th. I did note however Ch. 4 TV from Dothan AL in @ 7:30am on 7/11, that alone would entice most any DXer to stick around & hope for big DX, that is, if they didn't have a busy day ahead of them. No real Tropes happening & I've been very very busy with work this summer.

Ernest Cooper. E-Skip returned with a vengeance in July, noted here on 7/8-9-10-14, and at long last, some good Trop arrived on 7/25, with signals noted, mostly coastal, from Washington DC to Yarmouth, NS, all day long! The Realistic STA-52 is back from repair, and is back hooked to the McIntosh. While it was away, the McIntosh was used with a Sears AM-FM stereo. Seems the Mac will produce great things with any old FM radio! I note that the calibration is slowly working high, on the high end of the band - anybody know how one can correct this? Lots of stations haven't verified. I should have lots of fun sending out f/ups this autumn!

And there you have it, me hearties. I'm surprised more of our leading FM DXers didn't check in - if you want an FM column in the non-weekly issues of DX NEWS, you'd better make yourselves known by reporting! But please, and I repeat, follow the format you see on the preceding three pages. It takes a lot of extra time when you don't, and time isn't that plentiful with me.

We have had a volunteer to take this column over next season! I won't divulge his identity lest there be other volunteers, and then it'd be up to Mike to pick the new editor.

The deadline for next issue will be Monday, August 25, as again that week will find me heading for a radio club convention - ours! Please follow the format and skip a line between items. Thank you and good DXing!

** Ops Department. Correcting HH's entry with double asterisks one page back:

105.1 WQXK OH Salem, usually o/WAVA, another one in there, no doubt WKLC, WV, previously heard at Keyes Gap, 7/19, 1145.

Oh yes, one more item. One NRC member has written to several others asking them to consider debating the insertion of an FM column in DX NEWS. He strongly objects to it. I object to various things too, or rather find certain columns useless. I merely skip over them! Does anyone read the ENTIRE Sunday New York Times? Do they then write to the Times to complain about pages, columns and sections they find of no use? Hardly - live and let live! Nothing is being omitted to make room for this summer-only section - it is merely an adjunct to the greatest DX Club in the world!

Daytimers

by David Hughes

Opposing DST Bill

Washington DC ... AM daytimers, upset with plan to extend daylight savings time (DST), planned to meet with FCC officials in mid-June to discuss the loss of up to four weeks of lucrative morning "drive-time" programming.

Recent bills passed by both the Senate and the House propose starting DST on the first Sunday in April, rather than the last Sunday of the month, thereby adding three weeks of later sunrises and sunsets.

The House bill would also extend DST one week beyond its traditional end on the last Sunday of October, to give Trick-or-Treaters an extra hour of evening daylight on Halloween.

At press time, a Congressional conference committee was examining both bills and working out differences, according to the NAB. The final version must then be signed by the president to become law.

With the extra hour of darkness each morning in early and mid-April, AM daytimers fear they will suffer audience losses because they will not be allowed to broadcast at their full power level until sunrise.

"AM drive" losses

"We'll have to give up an hour of AM

drive time in exchange for an hour of PM drive," said NAB Daytimers Committee Chairman David Palmer of WATH/WTXQ, Athens, Ohio.

AM drive time is the most important part of the day for most daytimers, Palmer said, when most stations emphasize information and news services.

"People deserve information in the mornings. Surveys show that is when it is the most important," Palmer said.

He added that 43 million people, or about 20% of the population, live in an area where a daytimer provides the only local radio service. These people will essentially lose an hour of important radio coverage each day for three or four weeks, Palmer said.

If DST is extended, daytimers will be forced to utilize their much lower pre-sunrise authority (PSA) power levels for an hour of prime morning drive time instead of operating at full power. Many PSAs are below 50 W.

Meeting planned

At press time, Palmer said members of the NAB Daytimers Committee planned to meet in mid-June with FCC Mass Media Bureau Chief James McKinney to discuss possible solutions for the DST

extension. Palmer said some daytimers would like to see a 50 W minimum power level be instituted for PSAs. Even with that, a station still cannot cover the same area as if it were operating with its full daytime power of 500 W, 1 kW or 5 kW.

Another possible solution mentioned would be to allow daytimers to increase to full power at a specific time, such as 6 AM, rather than at local sunrise.

Aside from stopping the Senate and House DST bills outright, as with a presidential veto, observers say there is little the Commission could do to increase PSAs across the board.

McKinney reportedly told the NAB that since the "laws of nature" and the "immutable laws of physics" govern radio wave propagation, there is little the FCC can do to change PSA levels.

However, the NAB also reported that its Radio Board Chairman, John Dille III, said the new DST law would give the FCC the authority to "make power and operating adjustments that may be permitted under existing treaties."

"We're upset with the entire concept" of the DST extension, said NAB General Counsel Barry Umansky. "It will upset a delicate balance."

INTERNATIONAL DX DIGEST 15

Chuck Hutton, 437 Hardendorf Ave., Atlanta, GA 30307 (404) 378-8215

Times are GMT

For ELT subtract 4 hours.

Deadline: Monday

Connelly says "Who says you can't DX in the summer?". Hutton, that's who, and anybody that lives near thunderstorms too. Well almost, anyhow. My best reception of Brazil has been in August, when it gets much quieter here. Anyhow... All from Connelly unless noted otherwise.

162 FRANCE Allouis 7/24 0440 FF talk by man, poor to fair.
 209 MOROCCO Azilal 7/24 0439 good w/group AA vocal.
 585 SPAIN Madrid 7/24 0445 fair to good w/SS talk by man.
 621 CANARY ISLANDS Santa Cruz (t) 7/24 at 0447 with het and bits of audio.
 640 VENEZUELA Puerto la Cruz YVDD 7/25 0302 good w/ads for Porlamar businesses then dance-rock mx.
 670 VENEZUELA Caracas YVLL 7/25 0331 xint w/"La Gran Venezuela" ad, Rumbas ID.
 684 SPAIN Sevilla 7/24 0446 SS talk by man and woman, fair.
 693 AZORES Terceira (t) 7/25 0325 PP-sounding vocal, poor.
 702 CUBA 7/25 0342 food w/SS talk by man then vocal // 710. Weird to hear this on a TA channel.
 756 NEW ZEALAND IYA Auckland enough for a tentative report on tape.
 Standards with a female anncr fadein/out 1108 to 1130 6/23. (Heinen)
 774 SPAIN synchros 7/24 0351 Afro-influenced mx then man and woman in SS. Good on peaks.
 855 SPAIN Murcia 7/24 0456 fair w/SS talk and mx.
 882 CANARY ISLANDS La Laguna (t) 7/24 0454 fair w/man and woman in SS.
 890 MANY; was a study in non-readable signals buried in the summer static 7/28 MM during the WLS silent period which ended at 1017. At tune-in just ahead of 0900 an 891 het was audible on an 890 signal from the south, probably Bogota. None of the WLS co-channel domestics were on the air, it seemed, and I suppose the 891 signal came from Fiji rather than Australia although it might have been both. Taped across 1000 but otherwise a waste of tape. Eastern DX'ers who detected the het may find some satisfaction in knowing they had a signal from Down Under. (Martin)
 891 ALGERIA Algiers 7/24 0355 good w/AA flutes, violins and vocals.
 999 SPAIN Madrid 7/25 0425 fair w/woman in SS o/other stations.
 1015 EL SALVADOR (t) 7/25 0503 poor w/jazz, hetted by unid TA on 1017. (Could be Panama-Chuck)
 1035 PORTUGAL Lisboa 7/24 0335 fair w/man and woman in PP.
 1044 MOROCCO Sebaa-Aïoun 7/24 0403 xint w/AA a-capella male chant.
 1082 UNIDS 7/24 0511 strong DC (probably Portugal) atop second station which had AA-sounding mx.
 1107 SPAIN 7/24 0326 SS talk by man; good o/fast SAH.
 1116 MOROCCO Duarzazate (say that fast ten time backwards-Chuck) 7/24 0405 bits of female AA vocal, poor.
 1134 SPAIN 7/24 0407 SS talk, badly slopped by WNEW.
 1314 NORWAY Kvitsøy 7/24 0231 loud w/classical piano mx.
 1410.5 CANADA Port Hawkesbury, NS 7/25 0235 the stn screaming WPOP and other domestics with a raucous 500 Hz het is C160, not a Latin American. Tonight it was actually stronger than the 1410.0 stations, thereby facilitating an ID.
 1413 SPAIN Zaragoza et al 7/25 0440 bits of SS talk, jumbled w/other stns.
 1467 MONACO Monte Carlo 7/23 0344 music box IS, to strong peaks but fadey.
 1476 SPAIN Bilbao et al 7/25 0441 SS talk by woman, good o/SAH.
 1485 UNIDS (probably Spain) 7/25 0442 graveyard like jumble at strong level, little audio discernable.
 1503 SPAIN 7/25 0443 SS talk in WTOP slop.
 1521 SAUDI ARABIA Duba 7/24 0302 AA chanting to good peaks.
 1539 SPAIN 7/25 0445 SS talk by man, very good-nearly equaling level of WPTR on 1540!
 1554 GABON Melene (t) 7/25 0120 bits of audio; hetted by equal strength Caymans-1555.
 1557 MALTA Cyclops 7/25 0359 Deutsche Welle IS; good despite WDXR slop.
 1575 GABON 7/15 0500 two stations on the frequency, I imagine Portugal was one of them. At 0506 Portugal faded out, leaving Gabon all alone until 0516 when Gabon also faded completely out. Music consisted of a xylophone type instrument playing native music. This xylophone sounded as if they were beating wood or bone slats instead of metal. (Gustafson)
 1575 PORTUGAL Canidelo 7/24 0308 poor to fair with PP talk by man.
 1593 WEST GERMANY Langenberg 7/24 0318 poor to fair w/woman in GG. WODW slop phased.
 1602 SPAIN 7/25 0444 poor w/fast SS talk by man, hetted by WUNR.

Mahhhh Cornelly-W.Yourmouth, MA

Hilding Gustafson-Dunedin, FLA

Wayne HighNoon-somewhere high in the CO Rockies
Gene Martin-Denver, CO

R600, 2 37 meter phased wires,
MWDX4X phaser/MWTL regen tuner
HD140X, SM2
R390A, MWDX4 modified, loop/LW
HD180, box loop



Box 570 - MORRIS, MINNESOTA 56267

WQBA / SUPER-Q
701 S.W. 27th Ave. / Miami, Florida 33135

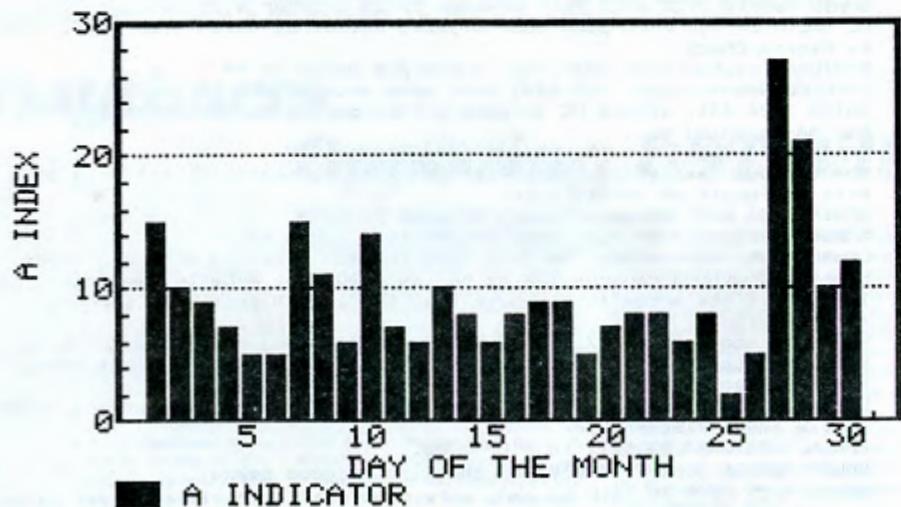
KUSA / KSD FM

10155 CORPORATE SQUARE - P.O. BOX 12400
ST. LOUIS, MISSOURI 63132

AfR GRAPH

Russ Edmunds, 753 Valley Road, Blue Bell, PA 19422

JUNE/AFR GRAPH



This graph shows the daily variations in AfR, the Fredericksburg (VA) index of geomagnetic activity in the earth's magnetic field. High values (above 20) indicate that medium wave signals in upper latitude paths will likely be absorbed, thus resulting in "auroral conditions", with signals from the South and from local stations predominating due to this absorption of the more northerly signals. Low values over a period of time indicate a likelihood of more receptions of the higher-latitude paths --- more, and more northerly TA's and TP's. Several days of low values following higher ones are needed for conditions to return to "normal", due to residual absorption. Long periods of extremely low values (6 or less) are necessary to raise the possibility of good high-latitude conditions throughout the entire MW band, although this is not the only requirement. For additional information on the use of the AfR and related indices as a DX tool, consult the NRC Reprints List for relevant articles. (The Reprint List can be obtained from the NRC Publication Center, whose address is located on the back cover). ---RJE

SUMMARY OF UNREPORTED STATIONS

Through Volume 53 #28 dated July 14, 1986

Compiled by Don Kaskey, 465 Burnett St., #1, San Francisco CA 94131

COUNTRY	V53	V52	V51	V50	V49	V48	V47	V46	V45	V44	V43	V42	Prior	Total
CANADA	219	84	27	33	10	5	8	4	3	1	1	0	24	419
U.S.A.	2788	649	469	297	155	116	73	48	34	15	19	8	131	4802
TOTAL	3007	733	496	330	165	121	81	52	37	16	20	8	155	5221

New Stations reported as having taken the air during the period covering V53 #25 through #28:

680-KLDY-WA	930-KTLD-CO	1200-WDCQ-FL
770-CHQR-AB (x--810)	1030-WBZE-MD	1200-WMLI-ME (x-1250)
820-WRFA-FL (x--800)	1040-WYFX-FL (x-1510)	1200-CKDA-BC (x-1220)
840-CKBX-BC (x-1240)	1040-KRAD-OK (ET's)	1330-WSPQ-NY
870-WMTL-KY (x-1580)	1170-WHCI-AL	1340-WALH-GA
870-CFBV-BC (x-1230)	1190-WECC-GA	1460-WEMR-PA

Delete the following stations from the above totals:

680-KVGO-LA	Reported as ON THE AIR in error. Never took the air. CP was cancelled by the FCC.
1230-CBON-QU	Has moved to 710 and become a 40 watt LPNT.
1440-KFPS-MO	Reported as ON THE AIR in error. Is still a CP.
1530-WJRL-MS	License was cancelled by the FCC.

Other notes of interest:

540-CKCY-ON	Did not switch from 920 as reported. Is still on 920.
820-WIQT-NY	Did not switch from 1000 as reported. Is still on 1000.
830-KGLR/KFLT-AZ	Tucson, reported on by M Street Journal several months ago with religious format, was premature. Still not on as of the first of July.

John Wilkins of Denver CO writes that while vacationing in Arkansas earlier this summer he heard previously unreported stations KBBA-690 & KJWH-1450.

Previously unreported stations noted by NRC reporters in DX NEWS since the last update (V53 #26)....Covers V53 #25 through #28:

AL---7	WQRX--870 (Starr-OH & Francis-TN: WRDJ-1560 (Atkins-GA)
AR---3	KBBA--690 & KJWH-1450 (Wilkins-vac-AK)
CA---6	KPRZ-1210 (Sheedy-Carpenter-Kaskey-CA)
FL---6	WPCF-1290 (Jeter-vac-FL); WYFX-1040 & WDCQ-1200 (Schatz-FL); WQNZ-1140, WHOF-1320, WLIZ-1380 & WXVO-1490 (all by Hughes-FL); WECC-1190 (Hughes-FL); WBET-1340 & WCOH-1400 (Hughes-vac GA); WYYZ-1490 (Jeter-GA).
GA---7	WMTL--870 (Winsor-IN); WANO-1230 & WALY-1590 (Hughes-vac KY)
ME---0	WMLI-1200 (De Lorenzo-MA)
MD---0	WBZE-1030 (Schmidt-DE)
MN---4	KNSP-1430 (Moser-ND)
MO---0	KZMO-1420 (Bueneman-MO)
NE---1	KGFW-1340 & KUVR-1380 (McCoy-NE)
NY---0	WSPQ-1330 (Voorhies-NY); WCDO-1490 (Goozovat-NY)
OK---4	KRAD-1040 (Hauser-vac-OK, Heard ET's)
OR---2	KWVR-1340 (Ferguson-WA)
SC---3	WALD-1080 (Atkins-GA)
TX---26	KPAN--860 (Dablestein-KS)
VT---0	WYKR-1100 (Voorhies-NY)
WA---0	KLDY--680 (Ferguson-WA, Heard ET's)

OFF THE AIR STATIONS: 1220-WNNR-CT, 1300-WGRC-NY, 1330-KWSK-ND, 1350-WJER-MI, 1360-KQIZ-TX, 1390-KBXT-MN, 1400-KYOT-MT, 1440-KPRO-CA, 1440-WBIS-CT, 1470-WLNU-FL, 1490-KNFL-MT, 1590-WTKW-WI.....

BACK ON THE AIR: 910-KOYN-MT, 800-KLTT-CO, 1170-WCTF-CT, 1230-KS2L-CA, 1240-CJNH-ON, 1540-WADM-IN, 1600-WSNX-MI....

DXCHANGE

Russ Edmunds, 753 Valley Road, Blue Bell, PA 19422

Items for sale, trade, wanted, etc.

Greetings, people, and welcome to the summer 1986 edition of DXChange. Seems like a large number of people wanting things this time!

FOR SALE - RECEIVERS

DRAKE R4A rx and manual, good cx. \$75 plus shipping. (Jerry Strawman, 519 30th St. NE, Cedar Rapids, IA 52402; (319) 362 7124 after 2300 UTC)

DRAKE R7 rx, very nice cx, no mods. With manual and service manual. 4, 2.4, 1.8 & 1.0 kHz filters and NB. \$750. Would consider trade for an older quality receiver of same value and cx. (Bill Marvin, Rt. 2, Box 287, Waseca, MN 56093. (507) 835-7180 weekends)

KENWOOD R-2000. Exc. cx. \$400. Shipping included. (Linda Brodsky, 55 Nassau Ave., Malverne, NY 11565)

ZENITH TRANS-OCEANIC ROYAL 3000-1 AM/FM/SW. Needs some work - FM inoperative. \$35. (Brodsky)

COLLINS R-390a in exc. cx, w/ manual and extra tubes. Will deliver within about 150 miles or can ship in 2 boxes with simple removal of power supply - need only screwdriver to replace it. \$240 plus UPS. (Fritz Mellberg, 1505 Central, Hawarden, IA 51023; (712) 552-2458 no collect calls, please)

FOR SALE - ANTENNAS

SPACE MAGNET SM-2. Battery operated. New \$95, used little, a bargain at \$50. (Joseph Janata, 25-10 21st St., Astoria, NY 11102) ** Local area only.

SPACE MAGNET SM-2. Exc. cx, \$50, you pay USPS. (Mike Plummer, 1402 Alpha Dr., Warsaw, IN 46580; (219) 267-7865)

GROVE ENTERPRISES ACTIVE ANTENNA - 100 kHz - 1000 mHz, with coax, exc. \$50 plus shipping. (Strawman)

RADIO WEST 22" FERRITE LOOP w/ LW, MW, SW coils. \$80. (Dan Sheedy, P.O. Box 31, Encinitas, CA 92024)

FOR SALE - PUBLICATIONS

FM ATLAS, by Bruce Elving, 9th edition, excellent cx. \$5. (Strawman)

FOR SALE - MISCELLANEOUS

DATONG UC-1 Upconverter & RS4A P/s. Converts any hamband-only rx into general coverage. Can also be used as a 2-meter converter, rx. only. \$220 or \$200 without p/s. Needs 13 V. DC. (Sheedy)

COLLINS FILTERS - 2, mechanical filters, from unknown rx, about 2" long. # F500242V2, 526937700 and 526937600. For 500kHz IF, new and unused. Make offer. (Marvin)

HEARCAT 210 SCANNER. 30-50, 144-174 and 416-512 mHz. \$175. (Brodsky)

WANTED

U.S. AND FOREIGN AMATEUR RADIO CALLBOOKS, 1984 or 1985. (Plummer)

SANYO VM209 monitor in exc. cx. (Bill Bailey, 92 Woodland Rd., Holden, MA 01520)

355 mf variable capacitor, 2 gang. (Roger Winsor, 302 W. John, Champaign, IL 61820)

SCHEMATIC FOR HALICRAFTERS SX-71 (Winsor)

TUBES FOR SX-71 (Winsor)

RADIO WEST LOOP ANTENNA. (Mellberg) **** see ad earlier in column - ed.

COLLINS 5153 PARTS: Large band change knob, front panel steel handles, Kilocycles glass window, IF crystal xfrmr unit (T-102, T-101), power xfrmr (T-108) (Marvin)

COLLINS R390A parts: Carrier level meter (clean and working); RF deck cover plate. Also information on R390A mods. (Marvin)

SL4000 and SL500 filters; NB7 noise blanker, and service manual for Drake R7 rx. (Strawman)

Well, that should do it for this one. Any of you propagation buffs, I'm planning on disposing of about 8 years' worth of monthly summaries of activity from Boulder. If I have no offers by Labor Day, they'll go to auction. Likewise miscellaneous issues of offset DX NEWS, mostly from 1970-76. No full sets.

73s,



CASE OF THE CUBAN SPY
BY GEORGE WILL
6-12-86

By
George
Will

Station starting some stirrings

WASHINGTON-On a cool morning recently, Jay Mallin was coolly telling a reporter that the radio station for which Mallin works as news director cannot be - heaven for bid! - "blamed" for successful escapes from Cuba.

Granted, Radio Marti's weather reports, broadcast from Washington and transmitted from Florida, are more detailed than reports broadcast by Cuban government radio. Marti's long-term forecasts and information on tides are closely listened to, especially by persons - often of military draft age - who are considering dangerous floats to freedom on inner-tube rafts.

Granted, also, such people are especially apt to listen to Marti, the U.S. government Spanish-language station now beginning its second year of broadcasting to Cuba. But Marti is prevented by its strict charter, as well as the wisdom of its administrators, from incitements.

Mallin tolerates no name-calling. Castro is referred to as the leader. Mallin has had Castro on his mind for many years.

Born in 1927 in New York into an America family with two generations of roots in Cuba, he was working for Time magazine during the revolution. During Castro's victory march to Havana in January, in 1959, the lead car carried Castro, the second car his security people, the third car the Time-Life contingent.

Ernesto Belancourt, Marti's director, supported the revolution in the 1950s and represented Castro's movement in Washington in 1957-1958. He left Cuba in 1960, when Castro's anti-democratic intentions became clear.

From Marti, Cubans learned of the massacre of dozens of young people when planes and gunboats sank a pleasure boat sailing toward

freedom. Marti told Cubans about the attempted kidnapping of a Cuban defector by Cuban Embassy officials in Madrid. Marti has reported the shambles of Cuba's sugar production: Cuba is reduced to buying sugar in the world market. Then it sells that, for less than it paid for it, to East Bloc nations to pay for Soviet subsidies.

Castro does not attempt maximum jamming of Marti, partly because of the cost. Cuba is a mendicant nation, selling its young men as soldiers in exchange for Soviet subsidies. Jamming is expensive. The Soviet Union spends about \$400 million a year to jam U.S. non-English broadcasts to the Soviet Union. Such U.S. transmissions cost just \$26 million. All Soviet jamming involves 15,000 technicians at 2,000 jamming stations, costing approximately \$1 billion annually.

Aside from the cost, Castro's vanity causes him to avoid full-scale jamming, which would affirm Marti's appeal. Marti, with 80 correspondents, costs just \$10 million annually, less than one advanced fighter plane. Marti is a magnificently cost-effective weapon.

Cubans are ravenous for news from Angola and Ethiopia, where 400,000 Cubans (half of them civilians) have served Soviet purposes. Castro's worship of Soviet technology caused a four-day stunned silence in the Cuban press after Chernobyl. Marti instantly broadcast not only the news, but a nuclear glossary, and interviews with exiled Cuban scientists about a nuclear plant Soviet technicians are building in Cuba.

Because Cuba is governed by "scientific socialism," there are, by definition, no crimes or other serious defects. However, since Marti has been broadcasting about developments in Cuba, Cuban broadcasts have been giving more attention to crimes and to problems like AIDS (which, until recently, Cuban authorities said did not exist there).

From Marti, Cubans learned of the massacre of dozens of young people when planes and gunboats sank a pleasure boat sailing toward

She - Esmerelda, that is - is one reason Cuban broadcasting is improving. Totalitarian regimes politicize everything and extinguish the freedom to think about politics. The growth of Marti's audience for its non-political programming has forced Cuban broadcasting to lighten up. There is now more programming for the restless young, and more first-run movies in prime time.

This change is a reluctant concession to consumer sovereignty. Any acknowledgement, however small and surly, of the power and claims of popular desires subverts the central pillar of totalitarianism, the tenet that the masses should be utterly passive and plastic to the power of the state.

So the voices beamed from the studios in the building at the foot of Capitol Hill have produced in Cuba a small stirring, something like a cactus sprouting through a crack in concrete. And life, however frail, has a way of triumphing in time, even over stone.

CONTESTS

Robert Kramer, 6416 N. Richmond, Chicago, IL 60645

1985-86 CONTEST RESULTS
FINAL

DXER	A	B	C	D	E	F	G
Moser, ND	3565	3110	13	4	5	4	--
Wolfish, MB	3286	2754	12	3	3	4	137
N. Hardy, WA	1986	1101	15	0	6	2	440
Renfrew, NY	1818	1425	7	2	4	3	133
B. Hardy, WA	1239	721	7	2	2	1	288
Conti, NH	982	825	2	0	2	2	77
Hogan, IL	99	99	0	0	0	0	--
<u>Noncontestant</u>							
me	3830	3525	8	3	4	4	--

PRIZE WINNERS

1. Most Points- NRC Log or Pattern Book: William Moser
2. Most State & Province points- \$6 in NRC Reprints: William Moser
3. Most Loggings off the Most Wanted List- \$5 in NRC Reprints: Nancy Hardy
4. Most Loggings off the Honorable Mention Most Wanted List- 1987 NRC Calendar or \$4 in NRC Reprints: William Moser
5. Most Target Stations- Sunrise/Sunset Maps or \$2 in NRC Reprints: Nancy Hardy
6. Most Auxiliary Target Stations- \$1 in NRC Reprints: (Tie) William Moser & Niel Wolfish.

Prize winners & the NRC Publication Center will be officially notified of their prizes by mail.

1986-87 Contest Rules

I. General Rules

A. Dates: 0000 9/1/86- 2359 5/31/87

B. Entry Fee: None

C. The contest manager will have final say in the resolution of any disputes.

D. All loggings must be updated every 30 days. Any logging over 45 days old will not be allowed for contest scoring.

E. Loggings may be changed during the contest period to increase point value provided that the contest manager is notified of the change.

F. Loggings may be backdated for late joiners (except for Most Wanted Lists).

G. The deadline for entry is 1/1/87.

H. All stations operating between 510 & 1630 kHz are countable for points in this contest. Unlicensed pirates may be counted only if there is proof, beyond a reasonable doubt, of the state of origin. Utility stations operating in this frequency range also are countable.

I. Stations that change call letters during the contest period may be logged on only 1 set.

II. Scoring

A. Log up to 10 stations from each state & province (for contest purposes, D.C. Alaska & Hawaii count as states). Point values are as follows: 1st stn 1 point, 2nd stn 3 points, 3rd stn 5 points, 4th stn 7 points, 5th stn 9 points, 6th stn 11 points, 7th stn 13 points, 8th stn 15 points, 9th stn 17 points & 10th stn 20 points.

1. Restrictions

a. Stations 6-10 from each state must either be a graveyarder, daytimer or fulltime station operating on day facilities at the time of reception (meaning a fulltime station heard during the daytime, at SSS, SRS, on a f/c, ET, DX Test or weather emergency). This rule does not apply to states where the nearest border to your DX location is more than 500 miles away (the distance to a particular station is not a factor, just the distance to the nearest border point). There is no restriction for D.C. Alaska, Hawaii or the Canadian provinces.

b. No station within 50 miles of your location may be logged unless one of the following conditions exists:

1. You have logged all of the stations in that state over 50 miles away or there are no stations in that state over 50 miles away.

2. You had never heard the station before under any set of call letters.

3. It was logged on a DX Test.

4. There are no other stations that you could log for stations 6-10 because of the restrictions on states less than 500 miles away.

2. Bonus Points as follows may be added to each state & province logging:

a. 5 points for a graveyarder. Graveyard channel stations are any station operating on 1230, 1240, 1340, 1400, 1450 & 1490 (regardless of power)

b. 3 points for a station operating on a regional channel

1. Stations operating on a clear channel with less than 1000 watts of power at the time of reception will be counted as regionals.

2. Stations operating outside the standard broadcast band (540-1600) will be counted as clear channel stations, unless the above power limit is met & the power is generally known to be less than 1000 watts (through publication or other verifiable source), then it will count as a regional.

c. 1 point for a daytime only station (this can be added on to other bonus points, such as 4 points for a daytime regional, 3 for the regional & 1 for being a daytimer).

1. U.S. daytimers operating on Canadian clears at night as a result of the recent treaty will continue to be counted as daytimers.

2. A daytimer may be heard at times other than daytime, SRS or SSS & still receive the 1 point bonus (such as on an ET or DX Test).

d. Handicap points will be awarded to certain areas to give everybody a fair chance of winning. The handicaps are in the form of multipliers, Simply multiply your points from the STATES & PROVINCES ONLY (Most Wanted Lists & Target Stations do not qualify for handicap points) by the multiplier for your area & round down to the nearest whole number (even if it comes out to .99 you would still round down).

1. West Coast: 1.6

2. East Coast: 1.2

3. South: 1.4

4. Depending on individual circumstances, special handicaps may be awarded, which will differ from those listed above. Also, certain areas on the fringe of a nonhandicapped area may receive a fraction of a handicap. You will be notified of your handicap at the time that your target list is sent.

3. When reporting your initial states & provinces, please use a separate sheet of paper for each level. When replacing one of the loggings with another, please inform me of the station being replaced.

B. Most Wanted Lists

1. Each DXer is to create a list of 25 stations that have never been heard before under any set of call letters (stations that change frequencies may be used for the Most Wanted Lists). Each logging off of this list is worth 25 points.

2. Each DXer is to create a list of 15 honorable mention Most Wanted stations never heard under any call letters. Each logging off this list is worth 15 points.

3. Restrictions

a. Stations heard using another set of call letters are considered to have been previously logged for the purposes of this contest.

b. At least 50% of the stations used for both lists must currently be on the air & must have been operating on regular schedule for at least 3 months.

c. All stations on both lists must be operating (or running initial tests) by 12/31/86. Any station not operating by 12/31/86 will be removed from the Most Wanted Lists & cannot be replaced unless the contest manager is notified of the change before 12/31/86.

d. Most Wanted & Honorable Mention Most Wanted lists can be amended, provided that the contest manager is notified in writing of the change. The changed station cannot be counted for contest purposes until you receive written confirmation of the change from the Contest Manager, or 5 days after the change was sent (whichever is shorter). If the station you change to is heard during the waiting period it must be replaced. The waiting period for the replacement of a replaced station is retroactive back to the date of the initial change. However, the station may not be logged until 24 hours after the post mark date of the notification you send to the contest manager.

e. For late contest joiners, Most Wanted Loggings may not be counted until 24 hours after the Post Mark date of your initial entry.

f. A copy of your Most Wanted lists should be sent to the contest manager at the time of entry.

C. Target Stations:

1. The contest manager will draw up a list of 25 target stations for each DXer. Each station heard off this list will be worth 10 points.

2. The Contest Manager will draw up a list of 15 auxiliary target stations for each DXer. Loggings off this list will be worth 5 points each.

3. Target stations may have been previously heard.

4. For late joiners, target stations are retroactive back to the start of the contest period.

III. Prizes: The prizes this year will be a little different from previous contests. You will have your choice of any item available from the NRC Publication Center up to the dollar amount listed.

A. Most Points: \$10

B. Most States & Provinces points (including any handicap points): \$6

C. Most Loggings off the Most Wanted List: \$5

D. Most Honorable Mention Most Wanted List loggings: \$4

E. Most Target Stations: \$2

F. Most Auxiliary Target Stations: \$1

Since there is no entry fee this year, I hope to see a good turnout. For those who were in last year's contest, read the rules carefully, there were a few changes.

Westport Station Calls Comedy King

22 VIA Pete Kemp
By JOHN CAVANAUGH

FOR 27 years, WMMM-AM in Westport had been successful, playing so-called adult contemporary music and focusing on community involvement. But in recent years, WMMM, as with many AM stations in the country, has had to contend with the growing popularity of FM, particularly among young listeners.

"We've been doing fine and have been very well accepted," the station's general manager, Gary Flamm, said. "But the last few years we've been on the lookout for something new and exciting."

What Mr. Flamm, who is also a vice president of the Westport Broadcasting Corporation, which owns WMMM, eventually found was a format that, he said, has made WMMM the first radio station in the nation to adopt a full-time schedule of "Comedy Radio."

Since June 2, the station, at 1260 kilocycles, has been broadcasting a wide variety of segments from comedy albums and old radio and television shows.

"We're still doing as much news, sports and business reports as we did in the past," Mr. Flamm said, "and we're now more committed than ever to local coverage. But now, by doing comedy, we're offering an alternative to what other area stations are doing."

As a 1,000-watt station, WMMM has a limited radius. Its main competition comes from AM and FM stations in Bridgeport, Norwalk and Stamford — where the programming ranges from hard rock to jazz to old standards — and stations in New York.

WMMM's previous format, such performers as Frank Sinatra, Tony Bennett and Lena Horne, Neil Diamond and Barry Manilow.

"We were in a groove with excellent ratings and a legion of fans," said John LaBarca, the morning broadcaster for the last 12 years and now program director. "So we felt we could afford to be a little brave and try something innovative and different."

One concession to the previous format has been keeping "The Italian House Party," one of the most popular programs in Fairfield County. Mr. LaBarca, who is 38 years old, has been the host of the show, between 9 A.M. and 1 P.M. on Sundays for the last decade.

Democrat-Chronicle 7-20-86
Rochester, N.Y.



Mike Lapitino, at left, the promotion director at WMMM-AM in Westport, with John LaBarca, right, program director, and Gary Flamm, general manager

"But in keeping with our new format," he said, "I'll be playing comedy tapes on the 'House Party' show, using Italian comedians like Pat Cooper."

"With the old format, we were appealing to an audience over 35," the promotion and sales director, Mike Lapitino, said, "but now we're convinced we'll attract a lot of young people, since the kids like comedy."

Mr. Lapitino conducts the 10 A.M.-to-2 P.M. programming. The broadcast day runs from 6 A.M. to 8:30 P.M.

Mr. Flamm said he had arrived at the idea of the comedy format after reading in a trade publication about Radio Group Inc., a company in New York that sells packaged comedy tapes to radio stations.

"John and I met with people at Radio Group and were very impressed with their material and wound up as their first full-time client," he said.

Under a one-year contract with Radio Group, WMMM has gained access to more than 600 hours of tapes that include comedy material and music.

"The music is intertwined with the comedy in a relevant way," Mr. LaBarca said. "For example, we've had Cat Stevens singing 'Schoolyard,' followed by a comedy segment, with Alan Funt doing the ABC's with a group of little kids."

Each comedy segment runs for about six minutes, although during certain periods, some segments last as long as a half-hour.

Comedy tapes geared to children

between the ages of 10 and 15 are played between 7 A.M. and 9 A.M. each Saturday, and a special "Movie of the Week" — such as the "Holy Grail" featuring Monty Python that was broadcast last night — are on the air from 7 P.M. to 8 P.M. every Saturday.

Mr. Lapitino, the 32-year-old promotion and sales director, has been with WMMM for 10 years.

Comedy from the "Golden Age of Radio" is blended with contemporary artists. Among those heard are Flip Wilson, Rich Little, Woody Allen, Bob Newhart, Shelly Berman, Steven Wright, Emo Phillips, Henry Youngman, Abbott and Costello, Laurel and Hardy, the Smothers Brothers, Jack Benny, Fred Allen, Bob Hope, Mel Brooks and Carl Reiner, George Burns and Gracie Allen, Eddie Cantor, and Jerry Stiller and Ann Meara.

Segments from a number of television shows, including "Saturday Night Live," "Laugh-In," "All in the Family," "Get Smart" and "Sanford and Son" are included.

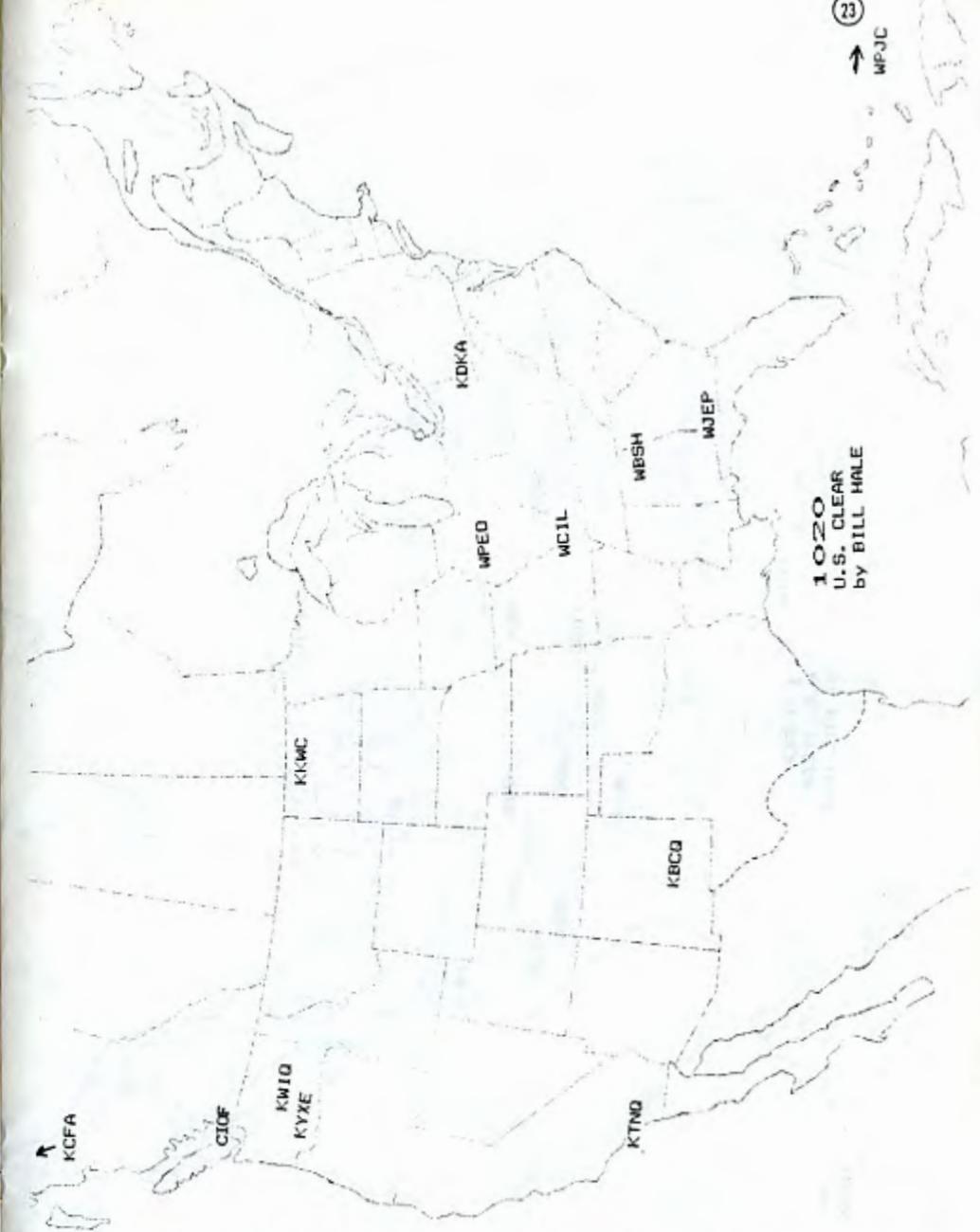
Mr. LaBarca conceded that there had been some resistance to the change in the format. "Some people called and said, 'Hey, what are you doing?' And some listeners, while they like the comedy material, say they want more music, and we're going to give it to them."

"Everything is very loose and flexible. But we've already determined that a lot of people have gotten addicted to the new format."

"We don't think everyone will stay with us all day," Mr. LaBarca said. "There are bound to be segments and

commercials that some people don't like, and they're going to switch stations. But we think a lot of them are going to become addicted, and even those who switch to another station, we hope they'll come back. After all, everybody likes a good laugh, and we're trying to make people laugh."

■ *By Greg Kumpf*



KOB Rebuild Leads to Booster

by Mark Durenberger

Minneapolis, MN ... I heard Jim McKinney say that an AM synchronous booster could be one of the technologies which could help save AM radio. That's nice, but it will also help me solve a specific problem in New Mexico.

The KOB project began with the modification of the nighttime pattern to further protect WABC, New York, and

it included a complete rebuild of the antenna system.

While the audio performance of the new system is much improved, the new Oggie Prestholdt-designed, super-stable pattern has virtually eliminated our nighttime coverage of Santa Fe, the state capital, 50 miles away and just off the null line toward WABC.

The technology is not new; there's a long-running system in Massachusetts and a large number in use overseas which operate quite successfully.

Because of a unique situation involving the terrain and the azimuth and

STATION GUIDE

Rochester

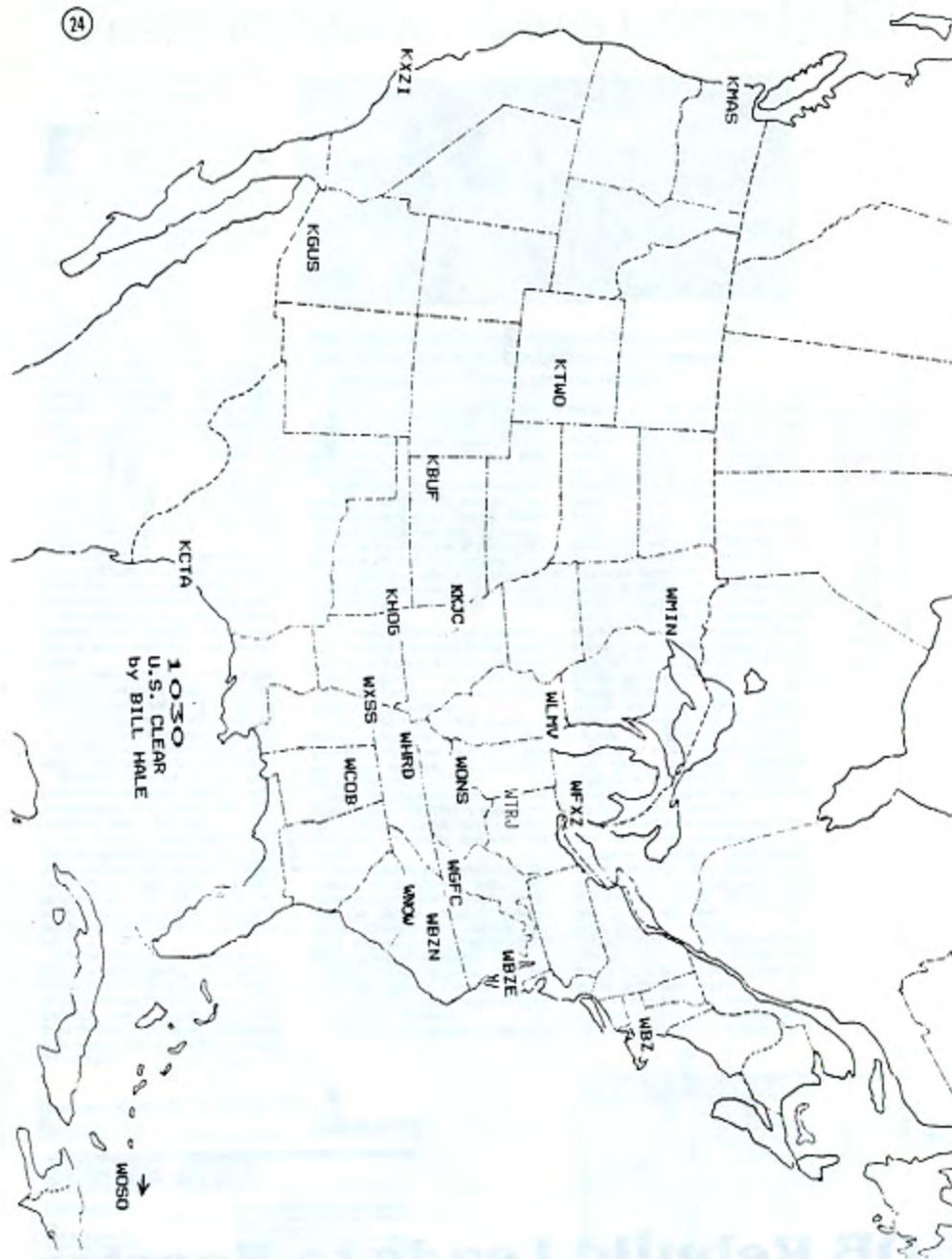
AM
WBUF (93.3) urban, rock
WYRK (99.9) country, ABC
WYAM (118.3) full service
WPKY (129.5) all hits, stereo
WZQZ (137.5) public affairs, jazz, MPB
WZQZ (141.5) Christian, adult
FM
WTRU (88.5) jazz, classical, rock
WTRU (95.3) modern, reggae, jazz
WYAC (96.5) jazz, special, stereo
WYAC (97.1) rock, adult contemporary, educational
WYCO (97.5) adult hits, stereo
WYCO (98.3) adult hits, stereo
WYCR (98.5) rock, educational
WYCR (100.1) rock, adult hits, stereo
WYCR (100.3) adult contemporary, stereo
WYCR (103.5) easy listening, stereo
WYCR (103.5) urban contemporary, stereo

Regional

AM
WOKA (85.5) adult contemporary, (Penn Yan)



MORE →



Well, about the time we were chewing at this and thinking about an experimental application, the FCC came along with a Notice of Proposed Rulemaking, so we decided to help row the boat (our highly helpful rowing partners have been the interested engineers at the Harris Corporation). Our application for experimental authority should be before the Commission about now, and we hope to be on the air by late summer.

Only two other requests for experimental authority have been filed: one

the Santa Fe ICR path delay.

The distortion zone

The area where the two 770 kHz AM signals will collide with each other is called the distortion zone. No matter how closely you tune the two signals, as you move through this zone you'll experience incoherent reception in some spots. Luckily, in our case, the predicted zone area is sparsely populated.

What good is "perfect synchronization"? One of the intriguing questions we

hope to answer is just how tightly we should define and control this distortion zone.

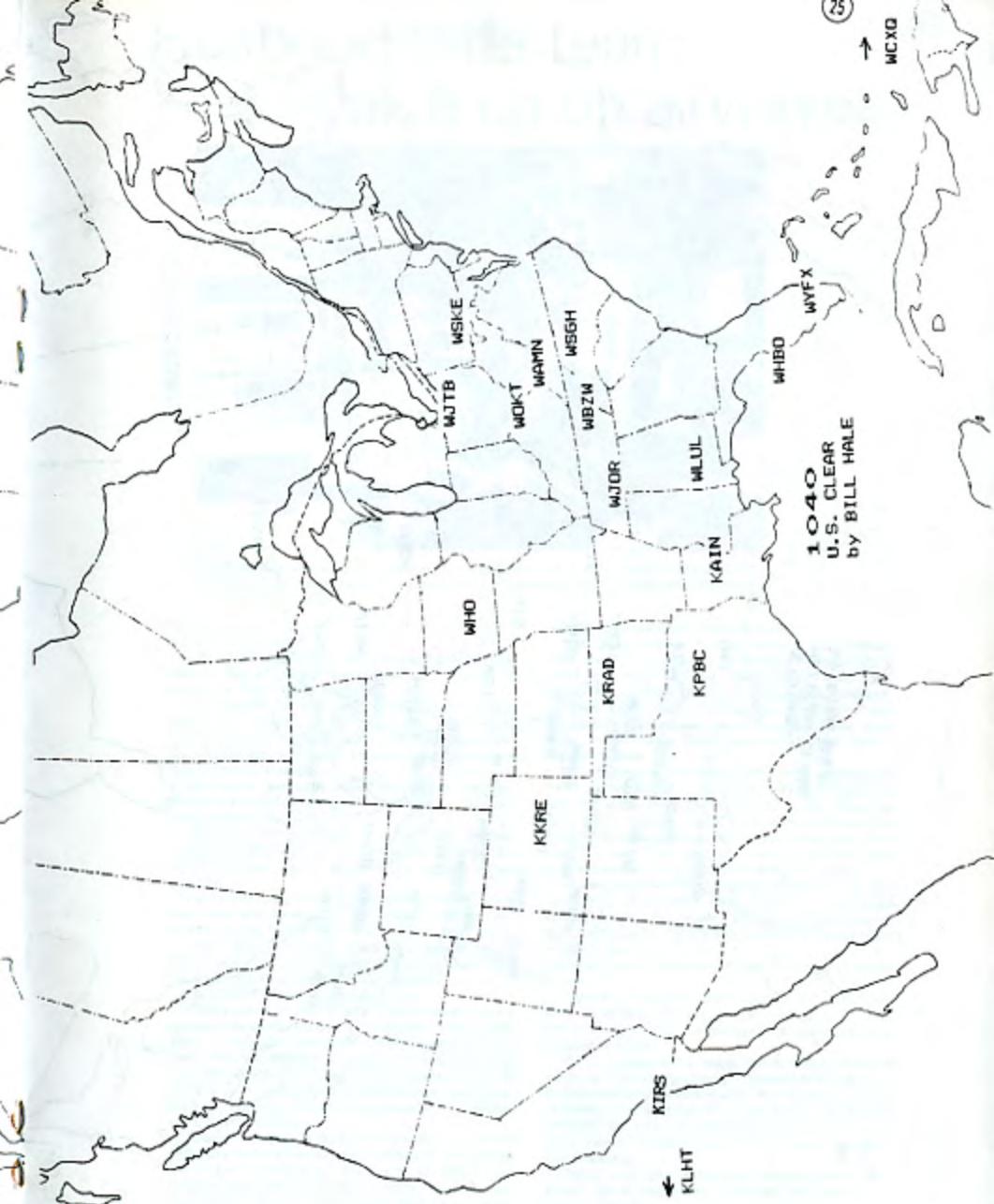
Won't there be just so many wavelength-related "perfect" reception points? If a listener is going to have trouble anyway when he drives through the zone (changing relative distances from the two towers), just how much benefit would we

receive from phase locking the two AM carriers together? Wouldn't high-stability oscillators fill the bill? We'll find out. Another item for observation will be

the relative performance of the Kahn and Motorola AM stereo systems in the distortion zone. I'm serving notice right now, folks, that we do NOT intend to get into a "Readers' Forum" contest on this because we have obtained an unusual

thus, beyond perhaps obtaining approval to publish the Kahn and Harris official positions on stereo performance in such a distortion zone.

New answers, parameters pending
We're about ready to go, and our project is likely to provide us with plenty of



experience to share with y'all. It'll be interesting and fun, and it will produce a tangible improvement of the KOB signal, illuminating Santa Fe and providing its 56,000 people with nighttime NBC service.

I guess I don't see a synchronous booster so much as a "salvation for AM" as it will be a tool for an AM broadcaster with a specific problem. A synchronous amplifier is not a frivolous investment.

Ever wish you could have perfect DX conditions year-round and 24 hours a day? Did you ever get distracted, miss an ID and wish you could do it over again? Here is a way to record the AM band to get all that and more.

Parts needed:

- 1 VHS video recorder (unmodified)
- 1 Adapter box: Antenna to VCR
- 1 Adapter box: VCR to receiver

The History

Let me backtrack a bit, back to "DX News" April Fools issue in 1983. On page 17 is a short article "The Monday Morning Tape Recorder", presented as a humor piece. I tried it. It didn't work. At all. The one missing bit of information was how to get the VCR to lock up on a stable speed. Without that stability it is impossible to tune in stations. They move around the dial at incredible speed, never staying in any one spot.

The Cure

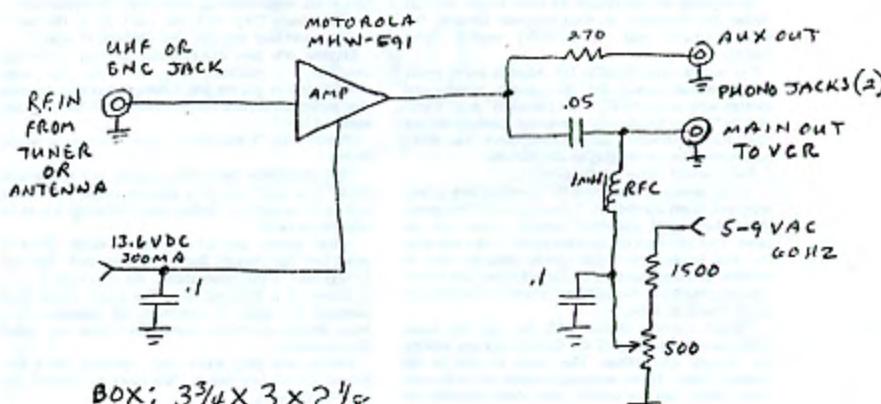
It was as simple as adding a 60 Hz 1/2 volt (rms) signal in with the RF spectrum. The VCR locked to it and everything was OK. Almost.

The Limitations

The VCR and tape have limited dynamic range. Put too much signal in and it overloads like a cheap receiver. Put in too little and the DX gets lost in the internally generated noise. Mine works fine with a signal of about 10 mv/m or about S-10 on my Drake R7A/longwire combo.

The Means

Antenna to VCR Adapter schematic



USE POWER CONNECTORS TO FIT WHAT YOU'RE USING.
A SMALL PLUG-IN POWER SUPPLY IS A GOOD SOURCE
OF 60 Hz.

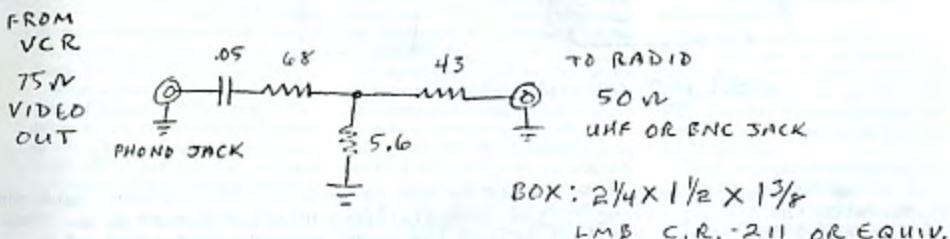
Note 1: The MHW-591 is an expensive part, about \$80 at last check. It is very good and is highly recommended if you can afford it. It is entirely probable that one of Mark Connnelly's creations would do as well. MHW-591 specs: 36.5 db gain from .5 to 150 mHz, useable to 200 kHz. It will put out around a half a watt relatively cleanly. The noise figure is about 3.7 db and is more than adequate. Good construction practices are a must or the module will self-oscillate.

Note 2: RFC1 and the .05 capacitor keep the 60 Hz and the RF where they belong. The 270 ohm resistor and the Aux. output are designed to work with my regenerative tuner (schematic at end for reference). They can be deleted if you don't need them. No parts values are critical.

Purpose: Amplifies RF and adds 60 Hz sync signal for video input on VCR.

VCR to receiver schematic

Nothing more than a very simple high-pass filter (the capacitor) and a 30 db pad (approximately) to prevent receiver overload.



Purpose: Lowers levels to what a receiver can handle and blocks the 60 Hz sync. signal.

Use

As a compromise between strong signals and weak DX, I limit myself to only a portion of the AM band. I have no strong locals above 920 at night so most of my DX is there. I can record from 1070 to 1600 with useable, DXable signals. You will have to tailor the signal levels and bandwidth to your location.

Thoughts

Most VCRs have a built-in timer for automatically recording. Very handy. The fast forward gets you from ID to ID quickly. If you go on vacation or a DXpedition then bring the VCR, record the band and DX later at home.

Swap tapes with friends, particularly ones in more exotic locations. For a DX test, one VCR at a remote location and one at home doubles your chances.

Buy a bunch of tapes and record the whole month of December for later dissection.

Tune your radio to WWV and put the audio into the audio input of the VCR for a perfect time reference.

OK, the purists will agonize over all this for months, but I don't care. This is my way of getting an advantage over the NSP stations and generally lousy conditions.

I cannot possibly try all VCRs on the market, so send in your results. Not all VCRs, or tapes for that matter, are created equal.

I have specified VHS. The Beta format may be as good, better, or worse. I simply have not tried it.

I did play a tape on two other machines and it worked fine. It should be no trouble to swap tapes. I will record tapes for your own tryout. This only requires you build the simple VCR/Receiver box. Send me a VHS tape and postage.

Your input is important. Please send your results.

C-QUAM AM STEREO RECEIVERS
ON THE MARKET AS OF APRIL 1986

MANUFACTURER	MODEL	NOTES
AMC/Jeep/Renault	AM ETR	Automobile
American Audio	ET-8602	Automobile
Audi	(VW Model)	Automobile
Audiovox	CPDGQ	Chrysler Equivalent
	GMADGQ	GM/Delco Equivalent
Carver	2000 Professional Series TX11A TX2	Home Receiver Digital Tuner Quartz Tuner
Clarion	990E, 8900RT, 8925ST	Automobile
Concord	HPL-550	Automobile
Ford/Lincoln/Mercury	EVY-18806 B, C, E	Dealer Option
Chrysler/Plymouth/Dodge	4311687, 4311686 (IRAN) 4311102, 431103 (RAY) 4311827, 4311828 (RAL)	AM stereo automatically included in all 1986 domestically built Chrysler Corp. vehicles having FM stereo
GM/Delco	UX-1, UT-4, YE-2	Available as factory or dealer installed option on most GM cars and trucks. Standard on some models.
Grundig	UC-438	Automobile
J.C. Penney	2277, 2278, 2275	Home Stereo Component Systems
Kenwood	KRC-8001	Automobile
Kraco	ETR-1090, ETR-1084	Automobile
Marantz	SR-440, SR-640, SR-840, SR-940	Home Receivers
Mazda		Automobile
Mercedes		Automobile
Mitsubishi	JX3, MX4	Automobile
Nissan	Maxima	Standard
Omnivox	CR620	Automobile
Pioneer	KEA-433	Automobile
Potomac	SMR-11	Broadcast Monitor
Radio Shack	TM-152 (31-1967) 12-1923	Home Tuner Automobile
Rolls Royce		Automobile
Saab		Automobile
Sanyo	MW250	Portable
Sharp	RG-8914 (BK)	Automobile
Sherwood	CRD-180, CRD-210, CRD-350	Automobile
Sparkomatic	SR-420, SR-425, SR-430	Automobile
Sunkyoung	SIR-7900	Automobile
Toyota	5625 (MR2), 5627 (Cressida) 1626 (Supra/Celica GTS)	Standard Also available on other vehicles
Volkswagen	SC-99 ETR, SC-73 ETR	For Golf and GTI Only factory receivers available

WMJC 95 FM
WHND 56 AM

KNIN
AM 990
FM '93

Canadian Operations Intact

by David Hughes

33
July 3

Washington DC ... Former daytimers on Canadian clear channels that have added nighttime hours will get to keep their authorizations, he said.

The court's order, Umansky said, would only affect the procedure the FCC has used to select license applicants for new stations made possible by the May 1985 clear channel order.

Daytimers on Canadian clears were authorized to add night hours last fall following the signing of an agreement with Canada.

Daytimers on the Mexican clears are still awaiting the signing of a final agreement with Mexico before beginning operation. Though a preliminary agreement was signed with Mexico in August, 1985, formal approval is still pending.

No action has been reported with the Canadian and Mexican (and one Bahamian) clear channels addressed by the 1985 order.

Despite the court's action, no changes will be made in nighttime operations by daytimers on Canadian clears, according to FCC General Counsel David Silberman.

"It is our initial interpretation that the court's decision won't affect daytimers," he said. The ruling should only affect applicants for new stations on the Canadian, Mexican and Bahamian clear channels.

NAB Deputy General Counsel Barry Umansky agreed: "There is nothing in the court decision that affects the expanded daytimer operations." Daytimers

on Canadian clears that have already added nighttime hours will get to keep their authorizations, he said.

This was in spite of the fact that, the court said, the FCC had included the minority provisions, adopted in 1980, in previous rulemaking proposals regarding clear channel operations.

Umansky said the court's decision, which objected to procedural rather than substantive issues, would only address the "relatively small number of new stations" that could start up because of the clear channel order.

Silberman maintained that since the FCC saw little or no opportunities for new stations on the Canadian, Mexican and Bahamian clears, it did not adopt any nontechnical criteria specifically for new stations. He stressed that the Commission did not just drop the minority provision, *per se*.

"There is little, if any, opportunity for new stations on the foreign clears," Silberman said. "We determined there was no need for the nontechnical (minority) criteria. We didn't abandon anything."

To prove the FCC's point, he said that since the seven Canadian clear channels were opened last fall, only one application has been filed for a new station. "There may not be room for the number of stations the NBMC argued," Silberman added.

He said that the court agreed that "fair notice" was not given regarding the elimination of the nontechnical criteria, but he added that the court did not address the "merits" of the FCC's clear channel order.

NBMC Counsel David Honig could not be reached for comment.

The Commission will have to issue another report on the docket that would solicit comments on whether to include a procedure for minority and noncommercial applicants for new stations on the affected clear channels addressed by the docket, Umansky said.

"It would require another phase of the rulemaking," he said.

According to Silberman, a further rulemaking proposal will be issued on the docket in the next few months.

WBZE

Indian Head, MD
AM Stereo 1030
50,000 watts

May 26, 1986

Mr. Henry S. Holbrook
7211 Chestnut Street
Chevy Chase, MD 20815

Dear Mr. Holbrook:

Thank you for your kind letter concerning your reception of our station. We are a brand new radio station built from the ground up and only received permission to broadcast on Saturday, May 24. Yours is the first letter we have received of this type (or from my listeners, for that matter). WBZE has studios in Waldorf and the towers (3 of 350' each) are in Hughesville, Md. We are still ironing out the wrinkles, but soon should be up to 50,000 watts of power.

I'm enclosing a coverage map for your information. Thanks for listening to WBZE.

Sincerely,

David C. Olson, Manager
Kathleen Thorne
Business Manager

Waldorf Commercial Center
Box 30, Montgomery Lane
Waldorf, MD 20601
(301) 870-8700

"Power for the Mid-Atlantic Seaboard"

WORD-A-DAY

By BACH



refractory
(ri-frak-tor-ē) adj.

OBSTINATE; STUBBORN
(A REFRACtORY PERSON)
RESPONSIVE TO TREATMENT
(A REFRACtORY DISEASE);
DIFFICULT TO MELT OR
WORK, AS AN ORE OR METAL

© News America Syndicate, 1986

Time-Zone		Time-Hora		Time-Hora		Day-Dia		Pwr		Azi		Zones		Target		Language			
kHz	UTC/GMT	0000-0045	0045-0115	0115-0130	0130-0145	0145-0150	0150-0155	0155-0200	0200-0215	0215-0230	0230-0245	0245-0250	0250-0255	0255-0258	0258-0259	0259-0300	0300-0315	0315-0330	0330-0345
2000-2045	0000-0045	Portuguese to Brasil, S.A.																	
2045-2215	0045-0115	Spanish to Spanish S.A.																	
2215-0100	0115-0130	North to Caribbean & N.A.																	
2215-0130	0130-0145	North to Caribbean & N.A.																	
0259-0500	(Mon)	0659-0900	Portuguese to Brasil, S.A.																
0329-0500	(Tue-Sun)	0729-0900	Portuguese to Brasil, S.A.																
0500-0715		0900-1115	Spanish to Spanish S.A.																
0715-0855	(Mon-Fri)	1115-1255	Spanish to Caribbean																
0715-0930	(Sun)	1115-1330	Spanish to Caribbean																
0715-1005	(Sat)	1115-1405	Spanish to Caribbean																
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Trans World Radio, Bonaire, Neth. Antilles, Caribbean
 High Frequency Transmitting Schedule 28 April 1986

FINAL [J86] 04 MAY 86 - 07 SEP 86.

Freq.	mb	Time-Hora	Time-Hora	Day-Dia	Pwr	Azi	Zones	Target	Language
kHz		UTC/GMT	BONAIRE		kW	deg	Zona	Alvo	Idioma
6145	49	0655-1100	0255-0700	Mon	50	170	12-16	S. Am.	Portuguese, Spanish
6145	49	0725-1100	0325-0700	Tue-Sun	50	170	12-16	S. Am.	Portuguese, Spanish
9535	31	0300-0530	2300-0130	Sun	50	327	6-8	N. Am.	English
9535	31	0300-0400	2300-2400	Tue-Sat	50	327	6-8	N. Am.	English
9535	31	0403-0500	0003-0100	Tue-Sat	50	285	10,11	C. Am.	Spanish
9535	31	0925-1030	0525-0630	Daily	250	160	12-16	S. Am.	Portuguese, German
11815	25	1110-1255	0710-0855	Mon-Fri	50	336	6-8	N. Am.	English
11815	25	1110-1332	0710-0932	Sun	50	336	6-8	N. Am.	English
11815	25	1110-1405	0710-1005	Sat	50	336	6-8	N. Am.	English
11875	25	2255-0215	1855-2215	Daily	50	176	12-16	S. Am.	Spanish, Portuguese, Spanish
15355	19	2325-0045	1925-2045	Mon-Sat	250	160	12-16	S. Am.	German, Portuguese, Spanish
15355	19	2325-0030	1925-2030	Sun	250	160	12-16	S. Am.	German, Portuguese

TENTATIVE [S86] 07 SEP 86 - 02 NOV 86, [D86] 02 NOV 86 - 01 MAR 87

Freq.	mb	Time-Hora	Time-Hora	Day-Dia	Pwr	Azi	Zones	Target	Language
kHz		UTC/GMT	BONAIRE		kW	deg	Zona	Alvo	Idioma
6145	49	0655-0930	0255-0530	Mon	50	170	12-16	S. Am.	Portuguese
6145	49	0725-0930	0325-0530	Tue-Sun	50	170	12-16	S. Am.	Portuguese
9535	31	0300-0530	2300-0130	Sun	50	327	6-8	N. Am.	English
9535	31	0300-0400	2300-2400	Tue-Sat	50	327	6-8	N. Am.	English
9535	31	0403-0500	0003-0100	Tue-Sat	50	285	10,11	C. Am.	Spanish
9535	31	0925-1030	0525-0630	Daily	250	160	12-16	S. Am.	Portuguese, German
9665	31	0942-1100	0542-0700	Mon	50	170	12-16	S. Am.	Spanish
11815	25	1110-1255	0710-0855	Mon-Fri	50	336	6-8	N. Am.	English
11815	25	1110-1332	0710-0932	Sun	50	336	6-8	N. Am.	English
11815	25	1110-1405	0710-1005	Sat	50	336	6-8	N. Am.	English
11875	25	2255-0215	1855-2215	Daily	50	176	12-16	S. Am.	Spanish, Portuguese, Spanish
15355	19	2325-0045	1925-2045	Mon-Sat	250	160	12-16	S. Am.	German, Portuguese, Spanish
15355	19	2325-0030	1925-2030	Sun	250	160	12-16	S. Am.	German, Portuguese

Distribution: TWR(all), TWR Monitors, Other Shortwave Stations, SWL Publications and Clubs.

TWR Monitors: Please report, using SINFO Code on broadcasts to your area. Identification of interference by NAME, CALL SIGN or LANGUAGE is helpful.

RTM Monitores: Favor relatar, usando o código SINFO nas transmissões à sua área. A identificação da interferência por NOME, IDIOMA, ou SIGNAL AJUDA.

Por favor, use el código SINFO en transmisiones a su área. Identifique la interferencia por su NOMBRE, IDIOMA o SIGNOS DE IDENTIFICACION, esto ayudaría mucho.

Other Shortwave Radio Stations: We would appreciate receiving one copy of your HF Schedule AS IT IS PUBLISHED.

SWL Clubs and publications: Permission is granted to reprint this schedule and the information contained in it.

Please address Monitor Reports and HF Schedules to: Frequency Coordinator

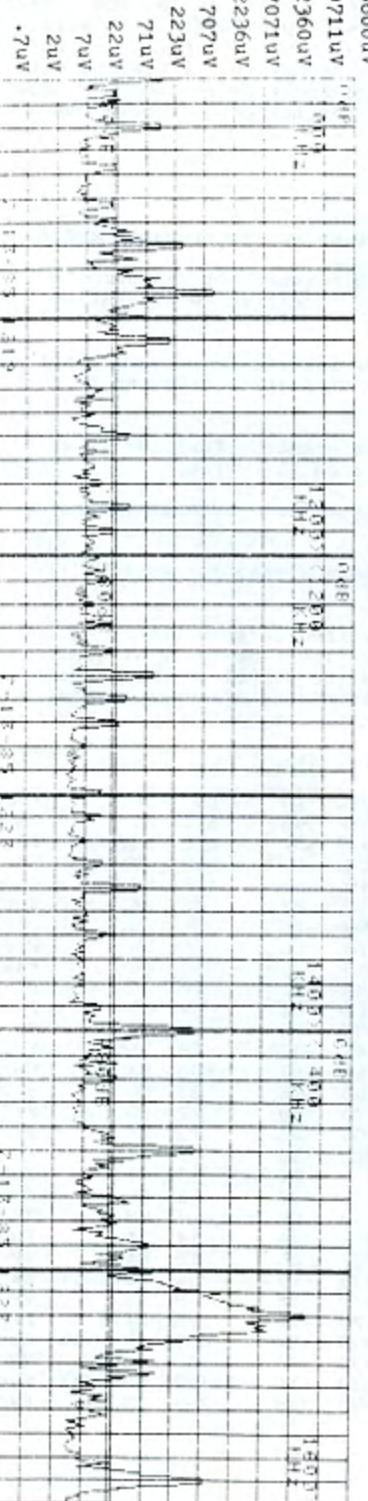
Chuck Roswell
 Chuck Roswell
 Frequency Coordinator

I ran another test of the noise and signal levels on the BCB. The results are similar to the daylight tests made previously. To make this test of some value, I ran a bandscan with my ICOM R-71A. I noted the S-meter reading and the clarity of reception. I came up with a list of types of reception conditions and their definition. I hope this will provide an aid to understanding the reception conditions I encountered during the bandscan.

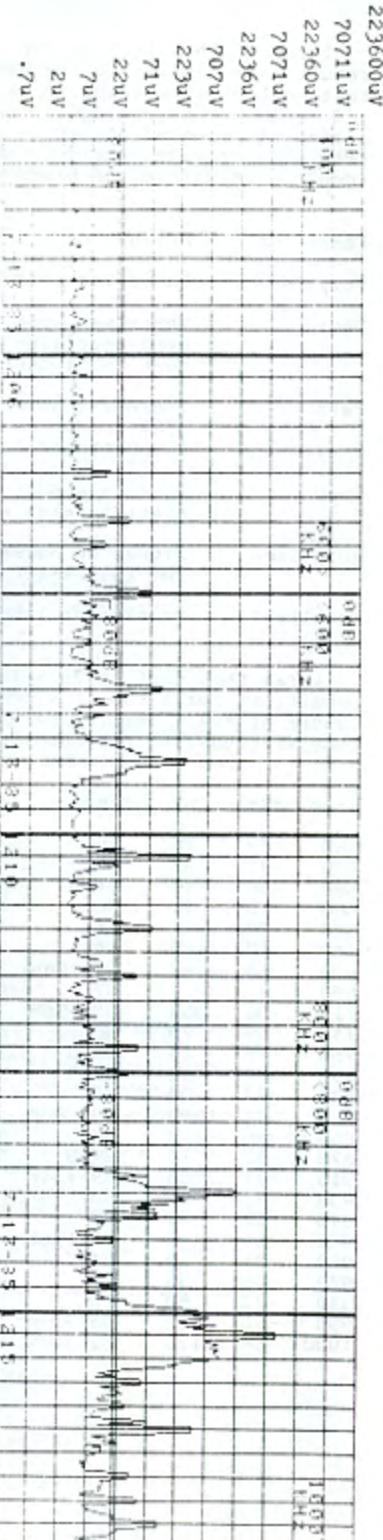
Condition	Definition
Very Poor	There was evidence of a station but no readable audio.
Poor	There was some barely readable audio but was hard to even determine the language. Positive ID of station next to impossible.
Fair	There was noticeable hiss or interference. Audio not 100% readable. Positive ID of station takes much concentrated listening.
Good	There was some hiss or interference. Positive ID of station takes some concentrated listening.
Very Good	Signal to noise not quite excellent. Casual listening for ID. Armchair copy.
Excellent	No hiss or interference. Good signal for music.

I ran this test on July 13, 1985. I wanted to show the reception conditions for a summer midday. The noise level measured at about -95dBm or 4uV. The following chart shows the signal levels of various stations and the results of my bandscan done at the same time.

Freq	dBm	uV	S meter	Cond	Freq	dBm	uV	S meter	Cond
550	-83	16	S5	Pair	1010	-80	22	S5.5	P/P
570	-77	32	S6	Pair	1020	-65	126	S8	Good
580	-86	11	S4.5	P/P	1070	-57	316	S9+8dB	VG
600	-70	71	S8	Good	1090	-47	999	S9+20dB	Exc
620	-90	7	S4	VP	1110	-62	178	S9	Good
640	-67	100	S9	VG	1130	-87	10	S4.5	Poor
670	-58	282	S9+10dB	Exc	1150	-76	35	S5.5	P/P
690	?	S7	Good		1170	-86	11	S5	P/P
710	-56	354	S9+15dB	Exc	1180	-76	35	S6	Pair
740	-69	79	S8	VG	1190	-82	18	S5	P/P
760	-75	40	S6.5	Good	1210	-84	14	S5	P
790	-74	45	S6.5	P/P	1230	-82	18	S4.5	VP
800	-77	32	S6	P/P	1240	-82	18	S5	Pair
850	-41	1993	S9+28dB	Exc	1250	-67	100	S8	Good
860	-66	112	S7.5	Good	1260	-76	35	S6	P/G
870	-82	18	S4.5	P/P	1270	-80	22	S5	P/G
910	-27	9988	S9+40dB	Exc	1300	-85	13	S3.5	P/P
930	-72	56	S8	P/P	1310	-88	9	S4	P
940	-77	32	S7	Poor	1330	-84	14	S4.5	Poor
950	-54	446	S9+10dB	VG	1340	-72	56	S7	Good
960	-85	13	S4.5	Poor	1350	-90	7	S3.5	VP
970	-76	35	S6	Pair	1360	-84	14	S4	Poor
980	-73	50	S6	Fair	1390	-85	13	S4	VP
990	-66	112	S8	Good	1400	-53	501	S9+12dB	Exc
1000	-65	126	S5	VP	1410	-88	9	S3	VP
					1420	-79	25	S4.5	P/P
					1450	-52	562	S9+10dB	Good
					1490	-68	89	S9+	VP
					1520	-16	35439	S9+50dB	Exc
					1590	-49	793	S9	Exc



uV referenced to 50 ohm input impedance.



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Comparison of the test and the bandscan show a fairly consistent result. It's interesting to try and determine what signal to noise ratio is needed for readable audio. When a station is not affected by a strong local the S/N ratio needed may be about 10-15dB to provide some intelligible audio. When a station is affected by a strong signal the S/N ratio need greatly varies depending on the strength of interference.

One of the problems in viewing the graphs is the inability to determine whether a weak signal is being interfered with by a strong station. It may appear that with good IF filtering you can eliminate any interference. In reality the problems can appear in the mixer stage(s) of your receiver. If you look at the graphs at 790KHz and 1000KHz you will note that these stations are received with good signal strength. The poor reception of these signals during my bandscan was due to strong interfering stations. This is one of the problems with using a untuned antenna even with a receiver known for it's strong signal reception abilities. This leads to my next article.

Reception With a Tuned Antenna

Marc Bergman

For this test I substituted a small Ferrite Loop antenna for the longwire antenna used in previous tests. The three graphs show the region from 600KHz and 1000KHz. In the first graph the antenna was tuned to 670KHz. In the second graph the antenna was tuned to 790KHz. In the third graph the antenna was tuned to 910KHz.

A comparison of the graphs show how the antenna peaks the frequency of interest and can lower the signal strength of possible interfering stations. In the first graph I've tuned to the station at 670KHz. With the longwire antenna this station was dwarfed by the signals at 850KHz and 910KHz. Their levels were 17dBm to 31dBm stronger. With the tuned antenna the station at 670KHz is at -43dBm. It is stronger than the stations at 850KHz and 910KHz by 30dBm and 17dBm respectively. This helps eliminate the possibility of interference from these stations. The other graphs show the same type of results.

The results with this loop antenna may not exactly correspond to that of commonly available ferrite loop antennas. This loop antenna is of my own design and is different in several ways. This loop antenna probably has a lower Q (tuning sharpness) than some commercial antennas. It's tuned with varactor diodes. An antenna with a higher Q would show greater attenuation of signals other than that signal to which it is tuned. It probably has greater gain than most ferrite loops due to it's greater amplification. In comparing the results of this loop antenna vs. the longwire antenna you must also figure that this loop antenna has 12-15dB greater gain. Given these differences it's still possible to see the advantages of a tuned antenna whether it's a loop or a tuned longwire. Not shown is the ability of the loop antenna to null a nearby station.

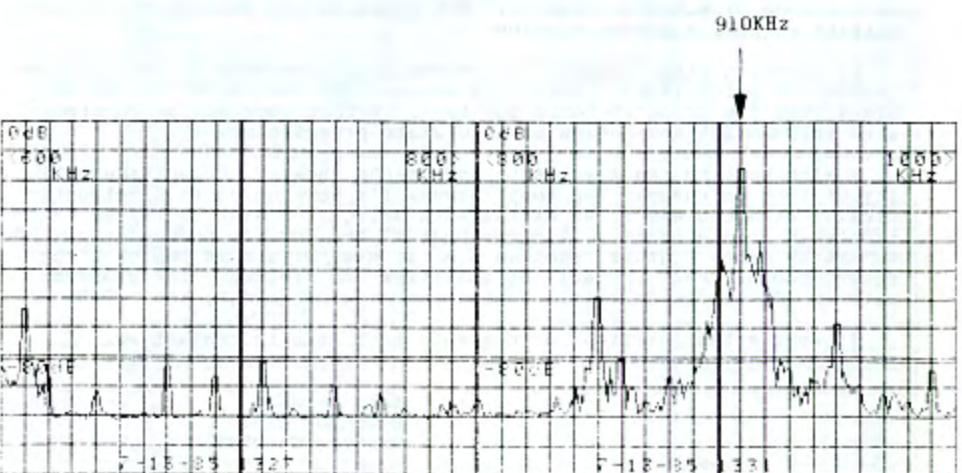
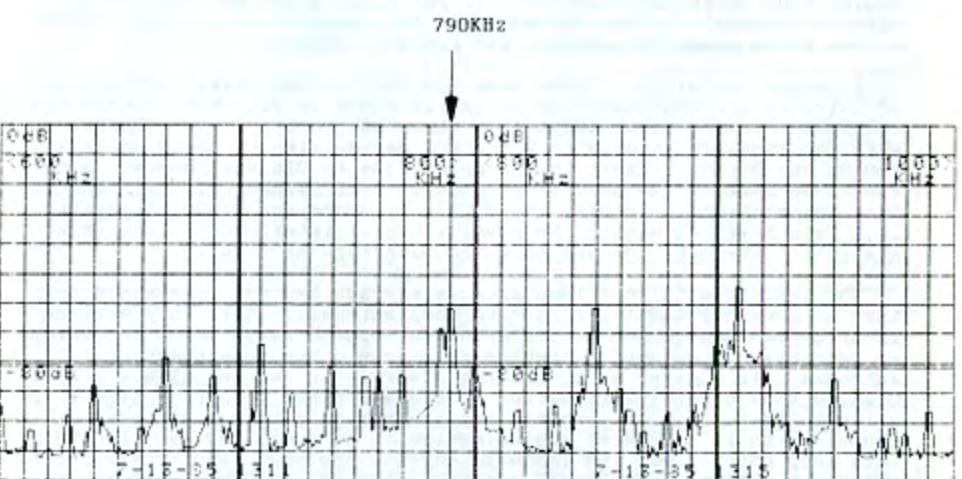
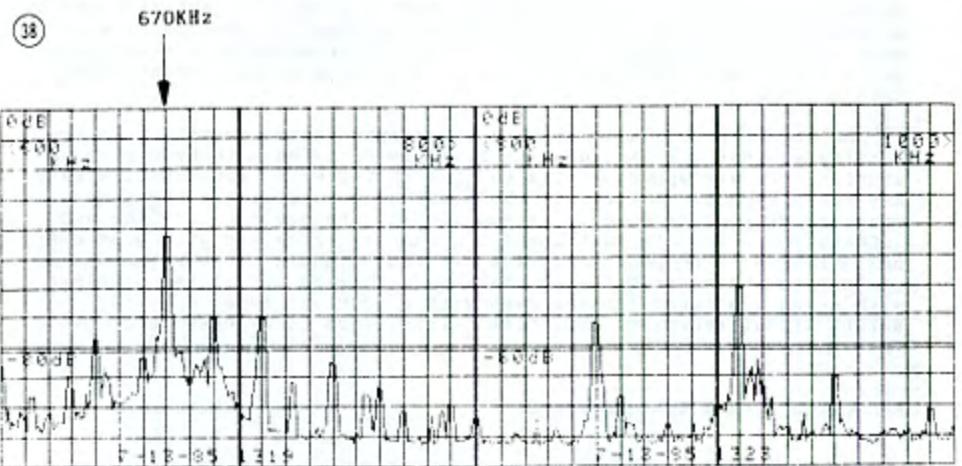
In studying these graphs I've become more convinced of the need for greater RF selectivity. There are several interesting RF filter designs that I'm going to build and test. I feel they can be incorporated into an antenna design or a separate preselector.

I also want to run some tests and graphs showing the nulling ability of loop antennas. The loop antenna I'm working on is Electrostatically Balanced and is an Altiazimuth design. I want to try an electrostatic shield on it. It seems that if the ferrite rods are exposed to nearby metal objects, such as a metal base or are on top of a receiver cabinet that the nulling abilities are limited. The problem with an electrostatic shield is the lowering of gain by about 3dB.

If anyone has questions or comments feel free to contact me.

Marc Bergman
P.O. Box 6286
Oxnard, CA 93031

Antenna tuned to different frequency for each graph.



Synch Xmtr CPs Awaited

39

by David Hughes

Washington ... The FCC said it has received several construction permit (CP) applications for experimental AM synchronous transmitter operations, with some plans calling for more than one additional synchronous transmitter.

The "six or so" applications are still pending Commission approval, according to FCC Engineer Gary Thayer. To date, only one application has been approved—for Laughlin Roughrider Broadcasting in Laughlin, Nev.

Following the release of its sweeping AM improvement report in April, the FCC said it may propose a rulemaking later this year to allow wider use of synchronous AM transmitters, which extend the signal coverage area by utilizing a second, closely coordinated transmitter on the same frequency.

Synchronous transmitters are widely used in Europe, but only have been used in a few isolated incidents in US broadcasting history.

Laughlin project

The Laughlin synchronous transmitter project is still being constructed, with a scheduled 20 July startup date, according to KROL VP Joe Reynolds. KROL is a new AM station located about 90 miles south of Las Vegas.

The 10-kW day, 1-kW night, AM facility on 870 kHz was theoretically able to

cover Las Vegas. But, Reynolds said, ground conductivity in the area was not as good as it was "on paper." The station therefore decided to utilize a synchronous transmitter.

Reynolds said that both transmission facilities feature three-tower directional arrays, but each has a different pattern.

The KROL slave transmitter, actually located in Henderson (near Las Vegas), will operate with 300 W days and 500 W nights.

Laughlin Roughrider President Tom Letizia said KROL will feature separate studio facilities at each transmitter site. Four microwave links will transmit programming between the two studio/transmitter facilities.

Often programming will be going "both ways" on the links: DJs will be located in both studios, he added.

Letizia said he has been contemplating the use of a synchronous transmitter since he began work on the radio project six years ago, when he discovered that the actual ground conductivity in the area was substantially less than what the FCC believed it was.

He added that he is working on a plan to expand KROL to a second synchronous operation, with the addition of another transmitter 500 miles to the northwest at Reno, which will require six microwave hops. "We want to become a statewide network," he explained.

"We have received lots of calls from

engineers at other AM stations around the country, even as far away as Hawaii, that are waiting to see how the KROL synchronous operation works before they apply for their own synchronous transmitters," Letizia said.

According to its experimental license, KROL must file a progress report to the Commission every six months.

KGNW

In another case, KGNW, a 5 kW operation on 1150 kHz in Seattle, Washington, has applied with the FCC to operate two low-power synchronous transmitters.

A circular 5 kW pattern cannot adequately cover the "long and narrow" Seattle market, according to KGNW CE/Operations Manager Richard Harris.

The station, he said, has applied for a 50 W transmitter at Everett, 30 miles north of Seattle, and for a 90 W facility at Tacoma, 30 miles south.

While the synchronous operations would improve KGNW's signal in both cities, the signal still will be on the weak side in between Seattle and the two cities, Harris added.

"We're keeping in touch with Laughlin Roughrider (KROL)," he said. "We just wanted to be in on the ground floor. It's a unique thing."

KOB situation

Officials at KOB-AM, Albuquerque, New Mexico, hope their synchronous transmitter plan will remedy a lapse in coverage brought about by being required to protect a New York station.

Ever since KOB, located on 770 kHz, lost a court battle in 1985 with WABC, the unrestricted New York City 50 kW clear channel facility, KOB had to change its nighttime pattern to further protect WABC, according to GM Arthur Schreiber.

The pattern change most affected listeners in Santa Fe, about 65 miles northeast of Albuquerque. While they could still receive KOB during the daytime, listeners complained that the signal was very weak at night, he said.

In order to restore its coverage in Santa Fe, Schreiber applied for a synchronous transmitter to be operated at night with 190 W.

KOB CE Gary Diamond said he hoped to have the new transmitter on the air by mid-summer, pending FCC approval. However, he said the synchronous operation will cause a "narrow band of interference" with the main transmission in a small zone south of Santa Fe. ■

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(40)

Constructing A Real DX Receiver



By MARVIN S. OLSON

A really good receiver is a rarity these days, especially when one tries to build one along economical lines. The one described is a really good receiver, one which brings in a lot of DX and at the same time costs little to build, at least no more than any ordinary 3-tube set. The combination of regenerative detector and tuned radio frequency amplification is carefully worked out.

EVER since the advent of radio frequency amplification, radio authorities have wrangled over the problem of reconciling it with regeneration. In truth, there seems to be no end to the agreements and disagreements concerning the relative value of radio frequency amplification when used in conjunction with a regenerative detector. Perhaps, if radio men would supplement their superficial knowledge of this type of amplification with more actual experimental work and less theorizing, some of its problems could be solved, once and for all. Though it has been continually declared that R.F. amplification and regeneration cannot be used together with any degree of satisfaction, I beg to disagree with that statement. A one-step R.F. amplifier in connection with a regenerative detector and a one-step A. F. amplifier has been in use at station 9AAG for some time, and the results obtained on both amateur and broadcast wave-lengths have been most satisfactory.

unit or units. A noticeable increase in amplification will be secured by doing this. I shall not attempt to explain the reason for this; I merely offer it as a suggestion which can be applied to other receiving sets as well as the one in question. Try it and see!

CONSTRUCTION OF THE COILS

At this point it might be well to consider the construction of the coils used in the set. L1 and L2, comprising the feed-back arrangement, consist of an ordinary variocoupler. This can, of course, be either constructed or purchased. The following dimensions are given for the benefit of those fans who may desire to construct the coupler for broadcast reception. L2 consists of 50 turns of No. 16 D.C.C. wire wound on a cardboard tube four inches in diameter, and tapped every tenth turn. L1, the tickler coil, has 20 turns of No. 20 D.C.C. wire wound on a tube with a three-inch diameter. Thirty turns of No. 20 D.C.C. wire on a tube with a four-inch diameter

will be satisfactory for L3. This coil should be tapped every sixth turn. These coils may be wound in any form, such as stagger-wound, basket-weave, zig-zag, and others, if the constructor thinks he will obtain better results with these windings. In my opinion, the ordinary type of winding is equally efficient when properly wound and left undipped. The radio frequency choke X is not always necessary. It consists of 250 turns of No. 28 D.C.C. wire on a tube with a three-inch diameter. Variable condensers C1 and C2 each have a maximum capacity of .0005 mfd. The rest of the diagram, I believe, is self-explanatory.

Next in order is the mounting of the apparatus. This is almost a matter of common sense, and can be summed up in two words: "DON'T CROWD." Keep the coils L1 and X well separated from each other and from the radio-coupler L1-L2. If possible, L3 should be mounted at right angles to L1-L2. If this is done, no trouble will be encountered with electro-magnetic action between the wrong circuits. Another thing: Do not mount the coils or condensers on a metal-shielded panel. There is positively no excuse for the use of metal shielding if the rotary plates of the condensers are grounded as shown in the diagram. The remainder of the mounting is a matter of individual taste.

Closely associated with the mounting is the wiring of the set. The rules of correct wiring are ancient history to most radio fans, but for the sake of safety, I will repeat them:

1. Run all leads as straight as possible.
2. Do not run long parallel leads.
3. Make the grid and plate circuit leads exceptionally short.
4. Separate the grid and plate circuit wires as far as you can.
5. Keep all wires at least one-half inch apart.
6. Solder all connections with resin-core solder.

By following these rules, you will not only be contributing to the efficiency of the set, but to the appearance as well.

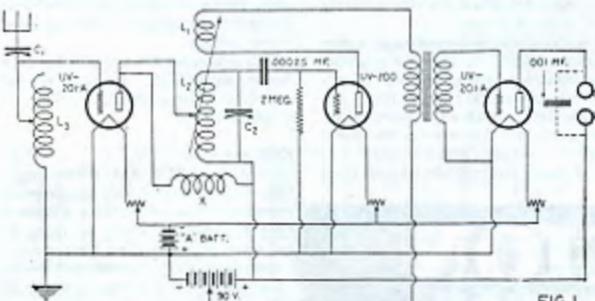


FIG. 1

The circuit is shown in Fig. 1. There is nothing unusual about it, except that the familiar potentiometer, "stabilizer," "losser," grid-biaser, or whatever you want to call it, has been omitted. If the set is properly wired, the rheostat of the R.F. tube will prove an entirely satisfactory means of oscillation control. Merely turn down the filament of the R.F. tube and the oscillations will cease. Let me emphatically reiterate the necessity of using care in the wiring job. Failure to do so will result in a tendency of the R.F. amplifier to oscillate readily, and thus render the proper reception of broadcasting impossible.

It will be noticed that reactive-capacity coupling is used between the R.F. tube and the detector. This affords greater amplification and selectivity, because of the high peak value obtained when the amplifier is tuned to one wave-length. The use of broadly tuned coupling transformer between the stages of a R.F. amplifier always results in a loss of amplification and selectivity.

Now for a statement which I know will bring heaps of criticism upon me but, nevertheless, a statement which I know from experience to be true. The audio frequency amplifier should be placed at least half a foot away from the tuner R. F., and detector

coil. It is my opinion that the two stages should be as far apart as possible. This will afford the best possible results. The antenna coil, the R.F. amplifier tube, the antenna tuning condenser, the detector tube, the grid leak and grid condenser, the detector tuning condenser, the interstage coupling coil and tickler coil, and the binding posts, are numbered 1 through 9, respectively, in Fig. 1.

1. Antenna Coil; 2. R.F. Amplifier Tube; 3. Antenna Tuning Condenser; 4. Detector Tube; 5. Grid Leak and Grid Condenser; 6. Detector Tuning Condenser; 7. Interstage Coupling Coil and tickler coil; 8. Binding Posts; 9. By-Pass Condenser.

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MUSINGS

Paul Swearingen

P.O. Box 4812, Panorama City, CA 91412

(41)

The opinions expressed in this column are those of the individual writer and do not necessarily reflect those of the Editors, Publishers, or the National Radio Club, Inc., or its subsidiaries. Times are local per Muse.

Welcome again, to our last pre-convention edition of *Musings*. I'll be happy to accept hand-delivered *Musings* in Delaware, especially if they pertain to the theme for the September 5 deadline, "memories". Our Vol. 54, #1 theme, as usual, will be your reintroductions, and after that I'll go a round of geographic *Musings* to carry us through November or so.

I'm typing this up the morning after a fun session with RCI's Ian McFarland, New Zealand DX'er Arthur Cushing and his wife, and KABC's Greg Hardison on ABC TalkRadio's "Ray Brem Show". After not getting home until after 4 am I'm not too sharp this afternoon ... so instead of trying to be witty, let's just get on with it ...

We've received three accounts of how you NRC'ers got started in the DX hobby, and I'll throw in a few words of my own.

Thomas H. White - 1119 North Harrison Street - Arlington, VA 22205

Around 1967 my twin brother, Howard, started keeping a list of the stations he could hear on the radio, and I soon joined in. We had absolutely no idea that anyone else was doing this, and because we didn't have any station logs to work from, many of the call letters we "heard" never really graced the airwaves. (In fact, until 1971 the only aid I had was out-of-town newspaper lists.) One night in early 1968 we were sitting in the car listening to the radio when we decided I would send a letter to KXEL-1540 Waterloo, IA and Howard one to WHO-1040 Des Moines, IA, telling them that we could hear their stations all the way in Arlington, VA. We were 11 1/2 years old at the time, so Iowa was an exotic place that seemed about half a world away. In fact, to this day I've never gone there. Anyway, we didn't expect to receive anything for our efforts, so we were very excited when both stations sent back these really neat cards with their call letters on them. Howard dropped out of the activities shortly thereafter, but I kept listening, and by the middle of 1970 I had heard 102 AM stations and received "really neat cards" from 7 of them. (This precise total does not imply that I was keeping anything other than chaotic records at the time - it was only a couple of years ago that I organized my pre-1971 records enough to be able to make the kind of precise statements about totals found in the preceding sentence.) My continuing belief that I was "the only one" was shattered at this point when, completely out of the blue, I received a sample bulletin from That Other Club, and my Christmas present was a membership in the same. (They had found out about me from a letter I wrote to WBAP-820.) I was glad to find my activities had the formal label of DX'ing, since up to this point I had telling people that I "collected radio stations", which confused them. Shortly after joining T. O. C. I received a sample bulletin from NRC - was there a practice of sending samples to new members of T. O. C.? I was now 14 1/2 and couldn't afford to join a second club, so my name didn't grace the NRC rolls until 1976. Jumping to the present, I keep very complete records, so here they are: 1035/253 stations, 39d/38d states, 7/7 provinces, 29/13 countries. I don't count call/freq. changes, but just in case you do I've been keeping track, so feel free to add 92/4 call and 11/0 freq. changes to the preceding totals, according to inclination. All totals are for the Arlington address at the top of this letter. 73.

Steve Goozovat - 17 Beethoven Street - Binghamton, NY 13905-4245

Hello, fellow DX'ers. This is my first Muse, but I promise to make it as painless as possible for you. Since the theme is how/who introduced you to DX and the NRC, I'll start there. I first learned of the NRC via Wayne Heinen's Medium Wave Interlude segment on "DX Party Line" on KJCB. I still listen to that feature when I get the chance; Wayne does a good job and deserves more credit than he gets in this publication. Like many of you, I was DX'ing for many years before I found out what it was called, and many more before I was able to begin to understand the propagation phenomena that made DX possible. As an amateur astronomer, I also DX light, so to speak, and I find the two hobbies to be very much alike ... Now for some random notes: Semi-local W1QH Horseheads is still on 1000 kHz despite some reports to the contrary, and likely will remain there for at least the rest of the summer; all of the Binghamton stations now seem to be operating NSP, a fact which I hope the people compiling the new log were aware of. Several weeks ago I was scanning the top end to see what I could find, and managed to pick up a "station" running nothing but ID's, from a multitude of stations. Was this one of our more prolific NRC'ers showing off his tape collection? Did all of you see that clipping on page 2 of issue 28 about exploding poultry? I guess we'd all better be wary about putting all our eggs in one casket. Sorry, I couldn't resist! (Hmmm - I won't egg you on for another yolk, either -pils) Until next time, au revoir, do-svidaniya 73 and all that stuff. (Welcome to the wacky world of the NRC, Steve; with a pun like the one above you'll have no trouble relating to the rest of us! -pils)

Paul Swearingen - Canoga Park, CA

The beginnings of my DX career are a little hazy, but I suppose what started me looking for more distant stations was a combination of a love of maps and geography and the serial programs still on the air in the mid-fifties. When I had trouble getting clear reception of "Amos and Andy", "Big John and Sparky", and "The Lone Ranger", I just tuned around until I found acceptable reception. Soon in the daytime I began to notice weaker out-of-state stations such as KWWI-540 Fort Dodge, IA; WAXX-570 Yankton, SD; KOMH-660 Omaha, NE; KSPI-780 Stillwater, OK; KUDX-1290 Siloam Springs, AR; and KWWI-1370 Booneville, MO. At night, especially on foggy nights in the fall, the clear-channel giants such as KNBR-680 San Francisco, CA; KOB-770 Albuquerque, NM; WCBS-880 New York, NY; WBZ-1030 Boston, MA, and XERF-1570 Villa Acuña, Mexico, began to intrude on our old five-tube Radiola, and I started keeping lists of what I heard and added to them lists from newspapers or accounts of stations. I discovered White's Radio Log in 1959 and about then decided to mark off the stations I heard and to keep a running total of new ones. During the summer of 1960 I spent two months with my grandparents in Greybull, WY, and although I wasn't really homesick I did enjoy listening at night to stations I also could hear back home: KIOA-940 Des Moines, IA; KOMA-1520 Oklahoma City, OK; KVGB-1590 Great Bend, KS, and others.

When I went away to college in 1966 I had little time for DX'ing (or science fiction, one of my other addictions) and listened only sporadically until the mid '70's. Early in '75 I lost a job while living in Baldwin City, KS and suddenly found myself with little to do between job interviews but to DX. A month later I was teaching in Allen County, KS and decided to join a radio club, which happened to be the National Radio Club. I read the first bulletin I received on a Pep Club bus I was sponsoring and was amazed that TA's, TP's, and SA's could be so widely received in the U. S. I started to concentrate on international DX and with the purchase of an HQ-180 found that DX'ing the splits was much easier with it than on my compact Fisher S-120.

After the death of Norm Maguire I volunteered to take over the column he'd edited, "International DX Achievements", and was amazed when the Louisville Publishing Committee awarded me with the job.

In 1982, I lost my father, got divorced, and got fed up with public school teaching and tossed everything I owned into my truck and a U-Haul trailer and headed west. It was two months before I found work, and on Thanksgiving Day, 1982, I called Ernie Cooper and then Mike Knitter to tell them that since I had now some financial stability I'd be interested in taking over "Musings". I think someone must have slipped something into the cranberry sauce to make me volunteer, but in spite of some long hours in front of an ancient manual typewriter and later on a Commodore 64, I've enjoyed it enough to take over two more columns, one for *Monitoring Times* and the other for *IRCA*.

Don Erickson warned me that column editors seldom had time for DX'ing, and he was right. Although I listen almost nightly to my Sharp FV-610 and have participated in many DXpeditions, I haven't really kept a DX list nor recorded much exotic DX since leaving Kansas. But I've moved into another phase, that of corresponding with and trading ideas with DX'ers all over the world, from Argentina to Sweden to South Africa to Japan to New Zealand, and I would hope that some of the petty bickering, egotistic outbursts, and griping that appears too often in this and other columns is transcended by the international friendships engendered by the DX'ing hobby. 73.

Fred Vobbe - 706 Mackenzie - Lima, OH 45805-1835

Hello from Lima, pronounced LIE'ma. Yeah, I know there's a city in a south American country which pronounces it differently, hi. Before getting into who got me into this mess I would just like to say that I agree with Paul's suggestion on a standardization of abbreviations. B/s is a logical abbreviation for bumper sticker. Perhaps a back page of a future *DX News* could feature an up-to-date set of 1986-87 abbreviations. (And who will volunteer to compile ... ? -pls) Now, let's move into the theme of this Muse.

I started listening to radio when I was very young. My first radio was a crystal set at age 6. Later I moved up to a Heathkit general coverage receiver. In the middle '60's I began to dial around and thought I was really picking up some unusual stations by hearing WQXR (1310 Dearborn/Detroit), WQJE (560 Monroe), WXYZ (1100 Cleveland), and on occasions WXYZ (1270 Detroit). I started officially DX'ing in late 1968/early 1969. My first three stations were WIS, WNL, and WPL, which I listened to often. I remember the Big Band program from some hotel in New Orleans on WNL, and in the good rock era of the Big-89 and Super 'CFL. It wasn't until I took a job with an FM station in Toledo, OH, and met Dan Myers, a Toledo DX'er, that I realized the fun of listening to stations outside of Toledo and Detroit. Dan told me about his hearing stations around the country which I thought was real interesting. I never would have believed that you could hear a station from Minneapolis, Atlanta, New York! It was then that I hooked up a piece of wire to the 1929 Silvertone my grandmother gave me and discovered that there were stations on just about every channel I tuned to. I wrote to them like Dan told me to and I received many beautiful QSL cards. In the early '70's I met other local DX'ers like Gary Siegel, Frank Merrill, and some of the other Toledo DX'ers. It was then that I learned that there were other nuts like me involved in listening to the "static", as my father called it. I also learned of the National Radio Club, and the other DX clubs. I also listened to some shortwave. My DX'ing

was never really a big hobby for me. I couldn't stand to stay up till 4 am to wait for the station in the Mountain Time Zone to sign off so I could hear California. During that time my hobbies included collecting jingles and airchecks mostly. In my years in radio I traveled a lot. It wasn't until I moved to Detroit to take the Chief Engineer's position at an AM radio station when I got hooked again. One of the other operators was a ham radio operator, and we loaded up a couple of receivers into the array one night. On another night Ken Romstadt and Gary Siegel came up after sign-off and we played around with Ken's Panasonic connected into the station's four-tower directional array. Since that time I have been reintroduced to many old friends, and have made many new ones. Working on the National Radio Club's DX Audio Service, I have met many new friends around the country, and even the world. Now that I have the electronic knowledge, and can afford to buy and build equipment, DX'ing has been more enjoyable and relaxing for me. I will say that I still do not take it as seriously as other members of the NRC. I will stay up to hear CPC tests, but I still can't get excited that there are probably 39.3592% more people that have more stations in the log than I, or that I haven't heard a station that someone else has. I just enjoy listening from time to time, and if there is something there, hey, I heard it! The funny thing about this DX'ing hobby is that it is catchy. As you know, we have a new baby here at the house, (and congrats Nancy and Bill, we didn't wait as long as you but it seemed like it), and last night during a crying spell I took our new daughter into the shack to get her out of Mom's way. The radio was parked on 630 kHz, and all you could hear was a multitude of mish-mosh. I set her down next to the Uniden and she stopped crying! She listened and watched the "S" meter lights go up and down. So, Paul, don't be surprised if you do another theme like this you get a letter from Connie Vobbe telling you that her ol' man got her into this business! 73 god DX. Hope to see you all at the convention in Delaware unless I get nosed by work or home activities.

Richard Clark - 7920 Dyer St. - El Paso, TX 79904

Hi everybody! Well, back to the best city in the USA which is quite different from what I have to put up with in the Dominican Republic. I mean, all that lousy merengue music which is about to drive me up the wall! DX'ing the RCB band is almost out of the question in the Caribbean because of the merengue music. This is why I have not been making DX reports to the NRC. Instead I've been DX'ing satellite TV, TV, FM; and I am a monitor for the WRTI. Here is some more news about Ciudad Juarez, Mexico/El Paso, TX: KANA-750 R. Kana is now 24 hours; XESOL-860 is now R. Exitos; KDXQ-920 is Double X in Spanish; KPNA-1060 R. Pina; KALJ (?? -pls)-1340 is R. Cali; XEJFW-1560 is R. Fama, and that is all I can think of now.

Welcoming the DX'ing Season in August

Gene Martin - 3303 East Evans Ave. - Denver, CO 80210

Personally, I have never encountered any persuasive evidence that weather has any major effect on the strength of long-distance signals in the broadcast band. I mean, trans-oceanic signals, for that's the only sort that holds my interest and concern. It may be important to remember that all processes in the weather take place in the very lowest levels in the atmosphere. Eight or ten miles up is about the maximum height for weather, whereas the factors that control the propagation and strength of radio signals are located in the ionosphere from 50 to 200 miles up. So inasmuch as the surface weather cannot affect the ionosphere, what reason can be found to speculate that weather somehow influences radio reception?

It is the weather that produces static via the thunderstorm, which certainly affects radio reception, although not necessarily the strength of signals. As to thunderstorms, here are Weather Bureau figures on their average frequency in the United States, month by month through the year: Jan., 2; Feb., 3; Mar., 2; Apr., 1; May, 10; June, 51; July, 129; Aug., 14; Sept., 5; Oct. and Nov., 0; and Dec., 1.

The big thing to notice there is that July thunderstorms are nine times more frequent than in August indicating how swiftly the weather begins taking on its autumn patterns after the heat of high summer burns itself out during July. To international DX'ers, here is an explanation why late August usually finds the Northern Europeans making a comeback in Eastern areas while Northern Asiatics begin showing up in the western U. S. The increasing hours of darkness in northern latitudes, combined with the decline of thunderstorm static, means the season of good DX'ing is swiftly approaching.

Way back in 1971 or '73, I believe it was, I found TA signals in Denver every day during the first ten days of September, and in more recent years, I find the first JO's of the season always showing up late in August. My personal DX'ing and sleeping habits have changed the last five years or so to the point where I'm giving almost no time to chasing TA signals while concentrating instead on the TP's. I am up every morning year-round now by about 1000 hours GMT when no TA's are possible. The only time I even tried for TA reception the past season I heard Dakar nicely on 765. I also check occasionally for Norway at 1314, but so far zilch.

G. Harley DeLeurere - P. O. Box 10 - Hendricks, WV 26271-0010

It has been awhile since I last sent you a Musing. I have been a busy man, and frankly I've heard nothing very spectacular on the radio. I've come to the conclusion that my DX'ing has become intensive rather than extensive. I've heard quite a few new stations; however, they're all located in this part of the world. Several new Canadians, though, have made it here. I did get a good logging of WFAD-1490 of Middlebury, Vermont. I felt good about it. "Veries" have been pouring in here at a snail's pace. Again none would be considered to be extraordinary. In travels around the neighborhood, though, I've stopped by certain stations to pick up my own "veries". Amongst such have been WCBC-1270, WRNR-740, WTBZ-1260, WKAZ-1300, WCMI-1340, and WJEN-990. Yesterday I was in Huntington, and I was stunned to learn that WMMF-1470 is off the air. At least it wasn't coming over the car radio, and I was right in downtown Huntington. Who knows what happened there? WMMF was one station I wanted to visit for a "verie". Right now I'm at the point in time that I need only three more "veries" from the State of West Virginia in order to have it one hundred percent confirmed. Those three are WAEY-1490, WMYO-970, and WXEK-1340. I've heard WMYO, and I did hear the old WLOH and WOVE. Maybe within the next year I'll bag those three stations. At least I'm praying such.

In yesterday's paper (*The Inter-Mountain* of Elkins) I noticed that WBUC-1460 is to be sold. I don't figure that it'll mean a call-letter change. WBUC is located just west of Buckhannon on the WBUC Road, which is a state road numbered 33/2. It must be mighty important around those parts.

Mr. John Martin, the chief engineer at WGLI-1290, wrote to me saying that he hopes to have QSL cards and coverage maps soon. I'm looking forward to my getting a QSL card from "The Mighty 1290".

Well, it's time to close so that I can enjoy the sweltering heat outside. It's close to 100 degrees out there. How can folks south of here stand it? How do you stand it in California? (No sweat, Harley; it's been a cool summer, with few days above 95, and most nights in the low '60's, and of course no humidity to speak of. And NO ragweed pollen, either, hi! -pls)

Jody Hughes - 13720 Gulf Blvd - Madeira Beach, FL 33708

Greetings all. Unsettled cx here a few mornings back resulted in a much-needed catch: WFG-1300 Marathon, FL, with call ID and mention of "Key Country". That leaves me one Florida station unheard, WKIZ-1500 Key West. This year's vacation is history, but I did check in on stations around the state while on my trip to KY. Most notable is that WNUY-840 Mims was nowhere to be heard while driving through, even though they said they were on. This was on a Monday at noon. WYND-1310 Deland was not heard. Also, WIVU-1470 doesn't seem to have switched to Spanish after all, as they are back to English and Adoon. But they were noted on with only Spanish for several days.

Radio Roundup

Pete Kemp, KZ1Z - P. O. Box 73 - Bethel, CT 06801

Greetings, all ... The Green County area of Ohio will soon be covered entirely by WMMX, as it will be moving its studios from Xenia to Fairborn, and increasing its power from 250 to 1,100 watts. The Gospel station's antenna will remain in Xenia ... WLRQ, in Nashville, has been sold and will be changing its call letters to WNKZ and will adopt a contemporary/sports format. Its FM sister will continue as a soft rocker ... KBSM in Kansas City is changing things around, too. Its new calls will be KKJC and will switch from an oldies to contemporary format ... KGNR, in Sacramento, has dropped its early-morning news block ... The big switch finally took place in Chicago, with Wally Phillips moving to the afternoon slot at WGN. Other stations in the market are taking aim, hoping to chip away at WGN's dominance ... In the Twin Cities, Minneapolis-St. Paul area, WWTC is changing format to music and its call letters to KSNE ... WNEW, New York, will carry all of the Seaton Hall University basketball games '86-'87 season ... The Connecticut News Exchange, a group of TV/radio/cable stations, have formed to share news items, in similar fashion to the currently running New England News Exchange. Participating stations include WINE/WRKI, WELI, WNLC/WYFD, WNAQ, WSNQ, WILL, WFSB-TV, and Cablevision of Connecticut ... Kevin Gosset is the new all-night man on WTVN-Columbus ... KCMO, Kansas City, has been sold again. This makes the fourth time in four years ... The new head of the FCC's Mass Media Bureau, AM Branch, is Thomas Albers ... So much for now.

Skip Arey, WB2GHA - P. O. Box C-4 - Cinnaminson, NJ 08077

Good Morning, Campers! Well, it looks by the old clock on the wall like it's time for a re-intro. I'm a soon-to-be-34-year-old family man with interest in most aspects of the radio hobby. I am the Technical Topics editor for NARWA's FRIENDX and founder and contributing editor of The Hollow State Newsletter. Also, I am a Life Member of the ARRL and a Home Computer Hacker of long standing. My personal choice in MW listening gear is a SONY-ICP 2010 for graveyard spotting and a much-modified Radio Shack model 655 TRF and Collins R390A for bringing in the signals with the help of a few homebrew aircore loops and phasing units. The biggest block to my listening is a close proximity to WCAU-AM's transmitter site. (I would hacksaw the tower, but it would fall on a friend's house). But

once you figure out your filtering and avoid front end overload you can actually live with a station so close that you can pick it up on your toaster. I expect to try some form of LSCA system this winter perhaps using shielded loops made of coax. There are no problems, only challenges, EXCELSIOR!! I hope to see many old and new friends at the NRC Convention. Yo, Dave, what's the statute of limitations in Delaware? Have they repealed flogging as a form of punishment yet? BCNU Skip.

Andrew F. Rugg - 669 De Gaspe - Apt. 218 - Nuns' Island, Quebec H3E 1J1

WENY-1230 is my only new verie, with no new DX to report. I enjoyed meeting so many DX'ers at ANARCON '86 and hope to see a lot of NRC'ers at New Castle. Current totals are 1647 logged and 1569 veries, for a 95.3% return after 26 years of on-and-off BCB DX'ing. 73.

Neil G. Zank - 623 Lyncrest Dr. - Lincoln, NE 68510

Long time, no Muse from here so here goes with what I have to say. In March I had the opportunity to be a member of the audience of a real "live" radio show. This was at the Prairie Home Companion show from American Public Radio Net and Minnesota Public Radio in St. Paul, MN. Great fun! DX-wise things became pretty slow for me in the spring. Since my last Muse only a couple of new entries into my log book. 3-20: KINN-660 Window Rock AZ logged with nice signal 5:55 - 6:05 pm EST, an interesting addition to the band. And on 6-26 noted KHOZ-900 Harrison, AR on ET loud with c&w mx and ID's 2:23-2:35 am EST. A report on WWW-1570 test of 2-17 did provide me with a verification of same for a nice addition to my totals. Now on to a few items of personal opinion on several subjects. I think that our volunteer editors are doing a good job with their columns in DX News. I do not think that NRC needs an FM column in the summer or any other time. FM reports are of no tip value to anyone due to the vagaries of reception in this mode. Let's give adequate coverage to the prime interest area of NRC which is MW DX and its related subjects. I also think that there are enough interested members of this club to provide input and advice on these matters without "selected advisors, many not in the NRC or any club". As quoted from Headquarters Bytes of 6-9-86. (Some of these are legal advisors, Neil; always prudent and necessary when one is in publishing! -pls)

Stan Morss - R. 2 - Boxford, MA 01921

Time for my annual report - lack of time limited DX but 20 stations reported for 17 veries with usual (for me) non-verifiers CJSB and WKPE and new WIME only refuseniks. Best was WFEN heard on A/N show 1-21 and mine furthest report at that time per verie.

No sign of the many local CP's granted on clears like WNE, WBSO, WCCC, etc., and with the locals on AM now already in a losing ratings battle with FM's, can't see how some will survive. Local WOTW AM still silent for only local off now. WVID, ex-WAMK, back and sent one of the best veries ever, a 5 lb verie - Data World's AM and FM directories updated to Feb. '86 with all U. S. A., Canada, Mexico applications, CP's, and licenses all listed, plus a very friendly letter.

Am now in my 50th year as a DX'er. Bought my 1st copy of Radex in Feb. 1936 and joined NRC in Sept. 1941. Started to verify in Feb. 1940 and am at about 4150 stations in 82 countries verified. Am still using Hammarlunds - an HQ-150 and HQ-180A. In 1936 I had a small Zenith table model, replaced by a Hallicrafters S20R in 1940 bought for \$49.50 new and sold in 1985 and still working good for \$50.00. Went to a Hallicrafters SX42 in 1948 and to Hammarlunds in 1956. Also have Worcester's AM set as a standby.

DX gets tougher as the years go on with the receptions like KPPC Pasadena, KQNP Port Angeles, WA on DX and regular skeds of 1Y2 NZ and 2WL in Australia. A memory revived by looking at the veries. Am stuck at 99 Californians and have never had MA completely verified. WMEK (the original) was a long-time holdout and WOO, later WMC Milford MA was only unverified for many years. Now WKPE is a holdout and WQCM-1490 W. Springfield heard but not reported is the other "on the air" MA station still unverified. RI is complete and all are possible except WKRI. A call change there would put RI on hold for years. 6 needed in CT, 5 in Maine, 1 in VT, and 2 in NH that are on the air, plus CP's. With local WCEA now on 1450 WMMJ, WJBX, and WRTQ will be tough. Glad to see Lefty doing his thing (editing) again, even though it's FM, where I seldom listen.



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KRMS-AM / KY94-FM

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